

## Jian Alan Huang, PhD

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## Education

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- **[Doctor of Philosophy](#)** (Engineering), University of Melbourne, Carlton Campus, Victoria, Australia. (Apr. 2005 ~ Mar. 2009)
- **[Bachelor of Engineering](#)** (Software) (First Class Honours), University of Melbourne, Carlton Campus, Victoria, Australia. (Mar. 2001 ~ Dec. 2004)
- **[Victoria Certificate of Education](#)** (VCE) (ENTER 99.85), Taylors College, Melbourne, Australia. (Oct. 1999 ~ Dec. 2000)
- **Shanghai Foreign Language School** (SFLS), Shanghai, China. (Sep. 1993 ~ Jun. 1999)

## Certification, Honours and Awards

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- **Professional**
  - Jul. 2010: Passed [CFA Level I](#) Exam.
  - Sep. 2009: [Sun Certified Programmer for the Java Platform](#), SE 6.
- **Post-Graduate**
  - 2005 ~ 2008: Melbourne Research Scholarship, University of Melbourne.
  - 2005 ~ 2008: NICTA Top-Up Scholarship, National ICT Australia Victoria Research Lab.
- **Under-Graduate**
  - Dec. 2004: Summer Research Scholarship, Department of Computer Science and Software Engineering, Faculty of Engineering, University of Melbourne.
  - 2002 ~ 2004: [Dean's Award](#)<sup>1</sup>, Faculty of Engineering, University of Melbourne.
  - 2001 ~ 2004: International Undergraduate Scholarship, Faculty of Engineering, University of Melbourne.
  - Apr. 2001: [Premier's VCE Award](#)<sup>2</sup>, First Student International Category, Government House, Victoria.

## Language Skills

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- **English** (fluent)
- **Mandarin** (fluent)
- **Cantonese** (basic)

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<sup>1</sup> The Dean's Award is an annual award for students in each year of the undergraduate courses in the Faculty of Engineering. This award is determined by academic merit and is awarded to the top 3% of the undergraduate students based on the weighted average of results obtained in a full year's study.

<sup>2</sup> The VCE Premier's Award is an annual award presented by the Governor of the State to the top international student in the state in recognition of academic excellence during the study of the Victorian Certificate of Education. Nomination of this award is based on VCE study scores and individual graded assessment scores of the previous year.

## Work and Leadership Experience

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- **Algorithmic Developer**, Fidessa Limited, Hong Kong (Aug. 2010 ~ present)  
Duties and achievements:
  - Development of BlueBox™ algorithmic trading models for Asia Pacific region;
  - Ongoing maintenance of existing BlueBox™ algo suite and response to client change requests and support enquiries;
  - Packaging, releasing and version control of the BlueBox™ Model product for Asia Pacific region;
  - Technologies: Java, TCL, RTD, OMAR, TickerPlant, Analytics, BlueBox™, BlueBox™ II;
  - Algorithms: TWAP, VWAP, POV, Hidden, Sniper, Iceberg, Assassin, ShortSell, Passive, Market (HKG), GFD (KLS), Arrival, MOC.
- **Project Coordinator, Analyst Programmer**, Transaction Technologies Limited, Hong Kong (Oct. 2009 ~ Aug. 2010)  
Duties and achievements:
  - Project leader of the development team (5) of the X5Cash™ securities trading system for BOCI;
  - Requirement analysis, architectural design and of the X5Cash™ system;
  - Implementing the underlining infrastructure of the X5Cash™ system;
  - Technologies: .Net, WinForm, C#, NetAdvantage, TIBCO, JSON, FIX protocol;
  - Project leader of the development team (6) of the iTrade online trading platform;
  - Implementation of the front office modules of the Winvest™ securities trading system;
  - Maintenance and client support of the Winvest™ system and the iTrade system;
  - Technologies: Java, Strut 2, JSP, Ext., Tomcat, WebSphere, DB2, AMS/3 protocol.
- **Software Engineer**, Iventra Inc., San Francisco USA (Mar. 2009 ~ Sep. 2009)  
Duties and achievements:
  - Designed and created the team Git repository, building process and bootstrap configuration;
  - Coded the Application Layer for user registration, sign-in and authentication for an online marketing and event management platform;
  - Designed and implemented the Service Agent Layer which provides an interface to the Application Layer for talking to the Service Layer;
  - Maintenance of the RegistrationOpen system currently deployed at registrationopen.com;
  - Recruiting junior engineers;
  - Technologies: Java, PHP + CakePhp, Javascript + jQuery, RoR, JOSSO, MySQL, XML, AJAX, JSON.
- **Project Manager**, [Intelligent Lifestyle Project](#), University of Melbourne (Feb. 2004 ~ Dec. 2004)  
Duties and achievements:
  - Planning for all aspects of the entire project lifecycle for a team of 13 software engineers;
  - Monitoring project progress, scheduling and controlling day-to-day project activities;
  - Resolving human, resource and technical conflicts, and make trade-off decisions;
  - Chairing team and administrative meetings;
  - Gaining and maintaining support from internal and external stakeholders;
  - Delivering speeches and presentations to team, stakeholders and general public audiences;
  - Technologies: Java, C++, JSP, Jade, Bluetooth, PDA, SMS, Face/speech Recognition.
- **Quality Assurance Manager**, [Cervical Image Database and Patient History System \(CIDPHS\) Project](#), Dr. Judith Fleming, Obstetrician and Gynaecologist (Feb. 2003 ~ Dec. 2003)



Duties and achievements:

- Defining, documenting, monitoring, measuring and improving development processes;
- Organising verification and validation activities at the end of each development phase;
- Planning, conducting and organising internal/external reviews and audits;
- Identifying, analysing, monitoring and mitigating risks which may hinder project development;
- Technologies: Java + Swing, MySQL.

- **Teaching Assistant**, Department of Computer Science and Software Engineering, Faculty of Engineering, University of Melbourne (Jul. 2003 ~ Dec. 2007)

Subjects Taught:

- Networks and Communications (3<sup>rd</sup> year) --- tutor
- Software Engineering Process and Practice (3<sup>rd</sup> year) --- tutor
- Logic and Computation (2<sup>nd</sup> year) --- tutor-in-charge, demonstrator
- Algorithm and Data Structure (2<sup>nd</sup> year) --- demonstrator

Duties and achievements:

- Attending a half day training programs at the start of each semester;
- Preparing for and conducting weekly tutorial and laboratory sessions in an interactive setting of around 20 people, to strengthen students' understanding of the subject;
- Organising, conducting and participating in regular coordination meeting;
- Assisting lecturers in assignment/project/test/exam marking and consultation;
- Participating in a formal quality of teaching evaluation program at the end of each semester.

- **Research Assistant**, Department of Computer Science and Software Engineering, Faculty of Engineering, University of Melbourne (Dec. 2004 ~ Apr. 2005)

Duties and achievements:

- Extending a previous project on developing a professional training system;
- Working on the Coaching Agent project in collaboration with Catalyst Interactive Ltd.

- **Private Tutor**, VCE Year 11 and Year 12 Mathematics Methods, Specialist Mathematics and Physics (Aug. 2001 ~ Dec. 2004)

Duties and achievements:

- Conducting one-to-one teaching of the subject material and assigning student homework;
- Answering specific questions as well as conveying general problem solving skills;
- Prioritising material based on the capability of individual students;
- Teaching lasts for two hours. Three times a week, mostly in week-ends;
- Having taught 15+ students during four years.

## Hobbies

- **Sports:** I like soccer, badminton, table tennis, snooker and skiing. I used to be the sports leader of my high school class. I was the best striker in my high school soccer team. Our team won the 4<sup>th</sup> place in a school tournament in Shanghai in 1999.
- **Music:** I enjoy listening to pop as well as classic music. I have played harmonica, violin, trumpet, drum as well as clarinet during high school. I also love singing and have won a number of school competitions. I have always been the accantor for the class choir. My songs can be found [here](#).
- **Reading:** I read extensively, broadly and sometimes aimlessly, typically 50+ hardcopy books a year. My main interest lies in philosophy, nature science, history, politics, sociology and economy.



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## Voluntary and Extracurricular Activities

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- **Fire Warden**, Information and Communication Technology Building, University of Melbourne (Jan. 2006 ~ Dec. 2008)
- **Tour Guide**, Official Opening of the Terabit Networking Lab, NICTA Victoria Research Laboratory, University of Melbourne (Oct. 2006)
- **Exhibitor**, Electrical Engineering Endeavour Day 2004, University of Melbourne (Oct. 2004)
- **Exhibitor**, Software Engineering Industry Night 2004, University of Melbourne (Oct. 2004)
- **Interviewee**, TV documentary "Chinese Immigrants in Australia<sup>1</sup>" (July ~ Sep. 2004)
- **Organizer**, Australian Undergraduate Student Computing Conference (AUSCC), Melbourne (Sep. 2003)
- **Interviewee** and one of the main characters in the TV documentary "Chinese Teenage Students Aboard<sup>2</sup>" (Mar. ~ July 2001)
- **Brickette and Evaluator**, Discovery Day, University of Melbourne Open Day (Aug. 2003, 2004)
- **Student Host**, Orientation Week of University of Melbourne (Feb. 2002, 2003 & 2004)

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## Referees

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- **Mr. James Hood**
  - Contact: [jim.hood@ap.fidessa.com](mailto:jim.hood@ap.fidessa.com), 852-91357300
  - Position: Head of Technology, Central Development Unit, Fidessa Limited, Hong Kong;
  - Relation: Jim was the person whom I reported to, while I was working for Fidessa.
- **Mr. Wilson Choi**
  - Contact: [wilson.choi@tx-tech.com](mailto:wilson.choi@tx-tech.com), 852-94750875
  - Position: Director, Transaction Technologies Limited, Hong Kong;
  - Relation: Wilson oversaw all development work.
- **Mr. Kevin Chiu**
  - Contact: [kmchiu@gmail.com](mailto:kmchiu@gmail.com), 1-510-502-9318
  - Position: VP of Engineering, Iventra Inc., San Francisco, USA;
  - Relation: Kevin was the person whom I reported to daily, while I was working for Iventra.
- **Prof. Leon Sterling**
  - Contact: [leonss@unimelb.edu.au](mailto:leonss@unimelb.edu.au)
  - Position: Director of e-Research, Chair of Software Innovation and Engineering, University of Melbourne;
  - Relation: Prof. Sterling was one of the internal stakeholders of the Intelligent Lifestyle project, for which I was the project manager.
- **Dr. Adrian Pearce**
  - Contact: [adrianrp@unimelb.edu.au](mailto:adrianrp@unimelb.edu.au)
  - Position: Senior Lecturer, Department of Computer Science and Software Engineering, Faculty of Engineering, University of Melbourne;
  - Relation: Dr. Pearce was the supervisor for my summer research project and my thesis advisor.

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<sup>1</sup> The "Chinese Immigrants in Australia" is a 20-episode documentary produced by the Aus-China Economy and Culture Exchange Development Center describing the stories of Chinese immigrants currently in Australia. One episode of the documentary is dedicated to describe my current progress in Australia as compared with what people know about 3 years before.

<sup>2</sup> The "Chinese Teenage Students Aboard" is an 8-episode documentary produced by the Aus-China Economy and Culture Exchange Development Center telling the story of a number of teenage students from China to study in Melbourne. One episode of the documentary is dedicated to describe my achievements from arrival in Australia to becoming the top international students of the state.



## Computer Skills

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- **Programming Language**
  - Assembly (basic)
  - Lex + Bison + Yacc (basic)
  - C / C++ / C# (advanced)
  - Java + 2D + EJB + JSP (advanced)
  - PHP + CakePhp (advanced)
  - JavaScript + jQuery + Ext (intermediate)
  - HTML, CSS, XML (advanced)
  - Visual Basic (intermediate)
  - Haskell (intermediate)
  - Prolog (advanced)
  - Mercury (basic)
  - Matlab (basic)
  - Python (intermediate)
  - IDL (intermediate)
  - Batch / Shell scripting (advanced)
- **Database System**
  - MySQL (advanced)
  - MS-SQL (intermediate)
  - Oracle (basic)
  - DB2 (advanced)
  - ODBC, JDBC (intermediate)
- **Operating System**
  - MS-DOS (advanced)
  - MS-Windows (advanced)
  - UNIX/Linux (advanced)
  - Mac-OS (intermediate)
- **Miscellaneous Software**
  - Tomcat, WebSphere (intermediate)
  - Struts, Spring, Hibernate (intermediate)
  - Eclipse, JBuilder (advanced)
  - Ant + JUnit (advanced)
  - CVS, Git, SVN, SourceSafe, Perforce (advanced)
  - BugZilla (basic)
  - MS-Office, LaTeX (advanced)
  - Photoshop, Flash (intermediate)
  - Visio, Rational Rose (advanced)

## Related Coursework

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- **Fundamental Subjects**
  - Mathematics A (Advanced)
  - Applied Mathematics (Advanced)
  - Physics A & B (Advanced)
  - Engineering Analysis A & B
  - Computing Fundamentals A & B
  - Digital Electronics & Microprocessors
  - Electrical Circuits
  - Digital Systems 2: System Design
  - Professional Issues in Computing
  - Accounting Concepts
- **Computer Science Subjects**
  - Algorithms and Data Structures
  - Software Design
  - Logic and Computation
  - Operating Systems
  - Networks and Communications
  - Interactive System Design
  - Theory of Computation
  - Database Systems
  - Artificial Intelligence
  - Programming Lang. Implementation
  - Modelling, Analysis & Visualization
- **Software Engineering Subjects**
  - Software Engineering Principles & Tools
  - Software Engineering Process & Practice
  - Software Engineering Methods
  - Software Project Management