

# Yun Young Lee

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## RESEARCH INTERESTS

My research interests lie in developing intuitive and efficient software tools that help programmers improve their code and productivity.

## EDUCATION

- University of Illinois at Urbana-Champaign (UIUC)** 2011 - present  
Ph.D. in Computer Science  
User-centric tools - intuitive refactoring tools, change-oriented programming
- University of Illinois at Urbana-Champaign (UIUC)** 2008 - 2010  
Master of Science in Computer Science (GPA: 3.97/4.0)  
Safer and easier configuration of complex medical device interactions
- University of Auckland, Auckland, New Zealand** 2002 - 2005  
Bachelor of Technology in Information Technology (GPA: 8.7/9)

## EXPERIENCES

- Research & Teaching Assistant, UIUC** 2008 - present
- *Research* in user-oriented systems - safe configuration of complex medical devices, and intuitive program transformation
  - *Teaching Assistant* for Object-Oriented Programming and Design (Smalltalk, Design Patterns), Software Engineering I & II (Java, XP, Refactoring), and Programming Studio (multiple languages) courses, mentoring classes of up to 140 students
- Software Engineer, Orion Health New Zealand Ltd** 2006 - 2008
- Developed and maintained a web-based Computerized Physician Order Entry system (J2EE, JavaScript, Struts), in charge of implementing the Integration Messaging Engine using industry standard HL7
- Project Developer, Auckland Uniservices Ltd** 2005
- Prototyped a mobile data collection system (J2ME, Bluetooth) for the Ministry of Education of New Zealand
- Tutor & Course Administrator, University of Auckland** 2004-2005
- Taught object-oriented programming and Java programming language, leading computer laboratory classes of 25 students, and mentored a class of 250 students
- Project Developer, University of Auckland** Summer 2004
- Implemented system integration engine (Python) between two university-wide test and assessment systems for students
- Software Engineer, Peace Software** Summer 2003
- Developed and maintained the billing application of the company's commercial software product (J2EE)

## SELECTED AWARDS & HONORS

- **Outstanding Teaching Assistant Award**, 2012
- **University of Illinois Fellowship**, 2010 - 2011
- **CIMIT Prize for Primary Healthcare Finalist**, a national competition seeking ideas for technological innovations to support improved delivery of healthcare, 2010
- **Siebel Scholar**, awarded annually for academic excellence and demonstrated leadership to 80 top students from the world's leading graduate schools, Class of 2010
- **Senior Scholar in Technology**, awarded each year to the top student in Bachelor of Technology, University of Auckland, 2006
- **The Michael Lennon Award for Excellence in Information Technology**, awarded to the top graduate in the BTech I.T. degree, University of Auckland, 2005
- **Technology for Industry Fellowships Grant** from Technology New Zealand, funding awarded to selected students to undertake R&D projects, 2005
- **Student speaker at the BTech IT Open Day**, University of Auckland, 2005
- **The IEE (Institution of Electrical Engineers) Prize** for the best student in the third part of the four-year BTech I.T. degree, 2004
- **The University of Auckland Senior Prize in Computer Science**, awarded on the recommendation of the faculties to the top students in Computer Science, 2004
- **University of Auckland ICT Academy Scholarship**, intern program awarded to selected students, sponsored by local ICT companies, 2004

## PUBLICATIONS

- **Temporal Code Completion and Navigation** Y.Y. Lee, S. Harwell, S. Khurshid, D. Marinov, International Conference on Software Engineering - New Ideas and Emerging Results (ICSE NIER), 2013
- **Drag-and-Drop Refactoring: Intuitive and Efficient Program Transformation** Y.Y. Lee, N. Chen, R. E. Johnson, International Conference on Software Engineering (ICSE), 2013
- **Toward Dietary Assessment via Cellphone Video Cameras** N. Chen, Y. Y. Lee, M. Rabb, American Medical Informatics Association (AMIA), 2010
- **Feasibility of Long-term Monitoring of Everyday Health Through Smartphones** N. Chen, M. Rabb, Y. Y. Lee, B. Schatz, UIUC Technical Report, 2010
- **Personalized Implicit Health Monitors** N. Chen, Y. Y. Lee, M. Rabb, B. Schatz, UIUC Technical Report, 2010
- **Reducing the costs of bounded-exhaustive testing** V. Jagannath, Y. Y. Lee, B. Daniel, D. Marinov, Fundamental Approaches to Software Engineering (FASE), 2009

## TECHNICAL SKILLS

**Languages:** Java (EE, ME), JSP, C#, JavaScript, Smalltalk, OCaml, ANTLR, SQL  
**Frameworks:** Struts, Stripes, Hibernate, Eclipse Platform and SDK, JUnit, Android Application Development, Subversion, Mercurial