

Tok Teck Bok
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OBJECTIVE

Computer Science PhD Graduate seeking faculty position.

PERSONAL

Born 10 Jan, 1973 in Singapore. married with two children.
Highly motivated, curious, tenacious, patient and hardworking.
Equipped with strong basic foundation, proficient technical and programming skills.
Readily establish individual and group rapport.

RESEARCH INTEREST

Compilers, Programming Languages, Distributed and Grid Computing.
Other interests: Numerical Analysis, Fault Tolerance, Model Checking, Algorithms, jkSecurity.

EDUCATION & HIGHLIGHTS

- 2000-07 Ph D University of Texas at Austin
Currently a Ph.D. candidate at the University of Texas at Austin.
Emphasis: Systems (compilers).
Proposed Thesis title: Removing Unimportant Work in Precise Interprocedural Dataflow Analysis.
Advisor: A/Prof [Calvin Lin](#).
Courses completed: Distributed Algorithms, Compilers, Advance Operating Systems, Numerical Methods and Analysis, Formal Semantics and Verification, Theory of Computation, Grid-Based Computing.
GPA: 3.9
Co-developer of *J-Breeze*, *C-Breeze* and *Broadway*: a Java and C compiler infrastructure.
Member of the [Speedway](#) research group.
- 1999-2000 M.Sc., National University of Singapore, School of Computer Science.
Thesis title: "Self Stabilization Without Global States".
Advisor: Prof [Y. C. Tay](#) and Dr. Philip Long.
- 1994-98 B.Sc. (Computer and Information Sciences), National University of Singapore
Honors First Class.
Emphasis: Algorithms and Theories; minor emphasis: Artificial Intelligence.
Thesis title: "Self Stabilization in Distributed Systems".
Advisor: Prof [Y. C. Tay](#) and Prof Aravind Srinivasan.
- Exchange Program at University of Western Australia, Feb-Jun 1996.
Undergraduate Science Research Program, 1995.
- 1992-94 National Service
- 1991-92 GCE 'A' Levels, Victoria Junior College
- 1986-91 GCE 'O' Levels, River Valley High School

AWARDS AND HONOURS

- 1995-97 Dean's List
- 1991 *Concept* (a Mathematics publication) Chief Editor, Service Award
- 1991 1st in Hewlett Packard Quiz
- 1991 Trainee for International Physics Olympiad
- 1988 2nd in National Software Competition (national)
- 1988 1st in National Software Competition (regional)
- 1988 Scout, Best Patrol Leader Award

PUBLICATION

Teck Bok Tok and Calvin Lin. Improving the Practical Scalability of Reachability-Based Dataflow Analysis. Under preparation.

Teck Bok Tok and Calvin Lin. Relevance-Based Context Sensitivity. Under preparation.

Teck Bok Tok, Samuel Guyer, and Calvin Lin. **Efficient Flow-Sensitive Interprocedural Dataflow Analysis in the Presence of Pointers**. In *15th International Conference on Compiler Construction*, March 2006

Teck Bok Tok and Calvin Lin. Object Reuse for Java. In IBM Austin Center for Advanced Studies 1st Annual Summer Conference, August 2001.

WORK EXPERIENCE

- 2000 Summer Intern, IBM e-boss System Performance, Software Group (IBM Austin).
Help develop customized tool for better software development.
- 1999-06 Graduate Research Assistant, University of Texas at Austin.
Contributes to the [C-Breeze](#) and Broadway compilers.
- 2006.7 Research Engineering/Scientist Assistant, University of Texas at Austin.
- 1998-99 Part-time Teaching Assistant, National University of Singapore.
Tutorial & lab classes with more than 100 students.

COMPUTER SKILLS

C, C++, Java, Pascal, Basic, Lisp, Prolog, SML, SQL, MPI, Ilog, CLPR, LEDA, LaTeX, HTML.
Unix, Linux, Windows, MS-DOS.
18 years of programming experience.

LEISURE

Basketball, badminton, cycling, jogging.
Hiking, travel, photography, reading.

REFERENCES

A/Prof [Calvin Lin](#)
Department of Computer Sciences
The University of Texas at Austin
1 University Station, C0500
Austin, TX 78712
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Prof [Kathryn S. McKinley](#)
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Prof [James C. Browne](#)
Regents Chair in Computer Sciences
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Prof [Y. C. Tay](#)
Department of Mathematics,
Department of Computer Science
National University of University