

Justin Brickell

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EDUCATION ◇ **The University of Texas at Austin**, Austin, TX.
M.S. in Computer Science, 3.91/4.0 GPA, December 2006.
Ph.D. in Computer Science, May 2009.
Thesis: *Privacy-Preserving Computation for Data Mining*.
Advisor: Vitaly Shmatikov.

◇ **Rice University**, Houston, TX.
B.S. in Computer Science and B.A. in Mathematics, *magna cum laude*, May 2003.

◇ **IES Beijing**, Beijing, China. Spring 2002. Study abroad program in Chinese Language.

RESEARCH INTERESTS Security, Privacy, Data Mining, Online Algorithms, Graph Theory.

PUBLICATIONS Privacy-Preserving Classifier Learning (with Vitaly Shmatikov). *Financial Crypto 2009*.
The Cost of Privacy: Destruction of Data-Mining Utility in Anonymized Data Publishing (with Vitaly Shmatikov). *KDD 2008*.
The Metric Nearness Problem (with Inderjit S. Dhillon, Suvrit Sra, Joel Tropp). *SIMAX 2008*
Secure Remote Diagnostics (with Donald E. Porter, Emmett Witchel, Vitaly Shmatikov). *CCS 2007*.
Adaptive Website Design using Caching Algorithms (with Inderjit S. Dhillon, Dharmendra S. Modha). *WebKDD 2006*.
Efficient Anonymity-Preserving Data Collection (with Vitaly Shmatikov). *KDD 2006*.
Privacy-Preserving Graph Algorithms in the Semi-Honest Model (with Vitaly Shmatikov). *ASIACRYPT 2005*.

SKILLS ◇ Programming Languages: Java, Perl, Python, Lisp/Scheme, C, C++, Fortran.
◇ Human Languages: Mandarin Chinese (conversational).

WORK EXPERIENCE ◇ **Software Development Engineer**, Google, Mountain View, CA (July 2009 – present)
◇ **Independent Contractor**, Nullring, San Francisco, CA (July 2008 – May 2009)
 · Perform a variety of constantly changing tasks for a small (3-person) startup.
 · Responsible for all components related to the Trusted Platform Module.
 · Designed system for storage on an untrusted storage device.
◇ **Software Engineering Intern**, Google, Mountain View, CA (Summer 2007)
 · Implemented a system for secondary indexing on top of Bigtable.
 · Performed code reviews for the source control system.
◇ **Consulting Intern**, Independent Security Evaluators, Baltimore, MD (Summer 2006)
 · Discovered security flaws in client products.
 · Compared performance of competing products.
 · Stress-tested internal software, and provided usability guidance.
◇ **Research Intern**, IBM Tokyo Research Lab, Tokyo, Japan (Summer 2005)

- Researched query techniques for dynamic, large scale databases.
- Presented a patent proposal to an internal review board.
- ◇ **Teaching Assistant**, The University of Texas at Austin (August 2004 – August 2006)
 - Courses: CS305J (Freshman Java), CS378 (Undergraduate Network Security), CS395T (Graduate Theory and Practice of Secure Systems).
- ◇ **Engineering Intern**, ViaSat Corporation, Carlsbad, CA (Summer 2003)
 - Designed and implemented a web bandwidth gauge in Java and Perl.
 - Wrote a Winsock UDP networking client in Visual C++.
- ◇ **Software Development Engineering Intern**, Microsoft Corporation, Redmond, WA (Summer 2002)
 - Implemented “rearrange commands” dialog box in the shared Microsoft Office dll.
 - Integrated my contribution into Microsoft Office 2003.
- ◇ **Research Intern**, Optimization and Uncertainty Department, Sandia National Laboratories, Albuquerque, NM (Summer 2000)
 - Developed an original heuristic for a combinatorial optimization problem.
 - Co-authored a technical report describing the research.
- ◇ **Research Intern**, Applied Mathematics Department, Sandia National Laboratories, Albuquerque, NM (Summer 1999)
 - Investigated graph theory and calculus problems.
 - Developed graphical user interface for truck routing program.

SERVICE

- ◇ **Program Committee Member**
 - Knowledge Discovery and Data Mining (KDD) 2007
 - Privacy Aspects of Data Mining (PADM) 2007
- ◇ **External Reviewer — Conferences:** KDD 2004, ICDM 2004, SDM 2005, CSFW 2005, USENIX Security 2005, KDD 2005, CCS 2005, SDM 2006, ICALP 2006, CRYPTO 2006, KDD 2006, WPES 2006, PET 2007, ESORICS 2007, CSF 2008, CCS 2008, PKC 2009
- ◇ **External Reviewer — Journals:** Data Mining and Knowledge Discovery, Transactions on Knowledge and Data Engineering, Knowledge and Information Systems, Transactions on Evolutionary Computation

AWARDS

Student Travel Award (ACM), Outstanding Teaching Assistant Honorable Mention (UT), East Asia and Pacific Summer Institute Fellowship (NSF), NSF Graduate Fellowship Honorable Mention, MCD Fellowship (UT), Dean’s Excellence Award (UT), President’s Honor Roll (Rice), Herbert Allen Scholarship (Rice), Louis J. Walsh Scholarship in Engineering (Rice), Tau Beta Pi (Rice), National Merit Scholar, National Advanced Placement Scholar.

REFERENCES

Available on request.