

JARRET FALKNER
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1018 Taylor Ave N #B, Seattle, WA 98109

EDUCATION

Bachelor of Science in Computer Engineering, *Magna Cum Laude*

Capstone coursework in Information Retrieval and Machine Learning for Advanced Internet Search
University of Washington, Seattle, WA

EXPERIENCE

Software Design Engineer, Data Integration and Warehousing

Zillow.com (March 2007-Present)

- Design and develop scalable systems that maintain the site's 80 million home database
- Provide technical support and implementation for data-driven marketing and advertising products
- Maintain vendor relationships for address and geographic coding services (NavTeq, Group1)

Research Assistant, Peer-to-Peer Software Development

University of Washington (December 2005-March 2007)

- Focused on measuring and improving performance in Internet scale peer to peer applications
- Wrote portions of BitTyrant, a BitTorrent client that increases performance by 70%
- Deployed a website architecture that handled 60,000 visitors in the 24 hours after BitTyrant's release
- Advised by Dr. Arvind Krishnamurthy in Dr. Tom Anderson's lab

Computer Programmer, Distributed Systems and Search Engine Development

University of Michigan (Summer 2005, Summer 2006)

- Redesigned portions of Tranche, a distributed file system that stores over 62 TB of proteomics data
- Resolved scalability bottlenecks using Bloom filters and custom B-trees
- Evaluated search algorithms and implementations for large mass spectrometry datasets

PUBLICATIONS

- Profiling a million user DHT. Jarret Falkner, Michael Piatek, John P. John, Arvind Krishnamurthy, Thomas Anderson. Presented at the 2007 proceedings of the ACM Internet Measurement Conference.
- ProteomeCommons.org IO Framework: reading and writing multiple proteomics data formats. J. A. Falkner, J. W. Falkner, and P. C. Andrews. *Bioinformatics*, 20 January 2007.
- ProteomeCommons.org JAF: reference information and tools for proteomics. J. A. Falkner, J. W. Falkner, and P. C. Andrews. *Bioinformatics*, 1 March 2006.

SKILLS

- Proficient Java programmer. Familiar with C/C++/C#
- Working knowledge of JSP, SQL, HTML, CSS, Tapestry, Ant, Eclipse, NetBeans, Regular Expressions, Threads, Perl, and UNIX

AWARDS AND ACTIVITIES

- Served as a mentor for 3 new Computer Science students during 2005 and 2006
- Member of the UW Association of Computing Machinery (UW ACM)
- Dean's List 2003-2006