

## David K. Hofer

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### ABOUT

I'm an experienced full-stack developer. I get stuff done, without much ego, and I'm good at troubleshooting and debugging. I'm looking for a job where I can use my skills while simultaneously learning interesting new things.

### EXPERIENCE

**Fiksu, Inc.**  
Boston, MA

April 2009 – October 2015

- Mobile audience data (May 2014 – October 2015)
  - Title: Principal engineer
  - Designed and implemented Java-based system to filter for mobile user profiles having particular characteristics (“audiences”)
  - Approximately 1B profiles, could generate dozens of audiences every few hours (filtering up to 1M profiles/second)
- Mobile event pipeline (September 2010 – May 2014)
  - Responsible for systems that processed launch events from all Fiksu client apps, 100/second in 2010, 5K/second in 2014
  - Titles (evolved over time): Software engineer, infrastructure manager, principal engineer
  - Took over leadership after 6 months on the team (in April 2011)
  - Improved stability and scalability, reaching 99.99% uptime after 4 years
  - On call 24/7/365 for 3 years straight, apart from a few vacations
  - Managed up to 3 other engineers
  - Gradually cleaned up inherited systems and codebase
  - Won one Fiksu Real Time Award (employee of the month), nominated for many more
- Fluent News app (April 2009 – September 2010)
  - Title: Software engineer
  - Took over 3-month-old codebase for iOS news aggregation app
  - Improved app stability and responsiveness, added new features, cleaned up the codebase
  - Available for production troubleshooting when needed
  - Ported most features to Android app (with help from a co-worker) in 3 months
- Programming languages: Ruby (on Rails), Java, Objective C
- Other technologies: AWS (S3, EC2, RDS, ElastiCache, DynamoDB, Redshift, SQS), Postgres, Redis

**Google, Inc.**  
New York City

January 2005 – April 2009

- Title: Software engineer
- Print Ads (April 2007 – December 2008)
  - Designed and implemented system to check and fix errors in submitted ads (PDF files)

- Productionized reporting system
- Mobile Ads/Mobile Front End (August 2005 – April 2007)
  - Modified Google Web Server to experimentally show ads to mobile web browsers
  - Helped to develop a web server specifically for mobile device search results, ported ad functionality to it, added other features
- Financial database rework (January 2005 – August 2005)
  - Helped to port a system tracking spend from large advertisers to the main codebase
- Programming languages: Java, C++, Python
- Other technologies: Bigtable, Borg, MySQL

**Comverse, Inc**  
Cambridge, MA

November 2000 – May 2001

- Title: Software engineer
- Helped to port existing voice UI to new speech recognition framework

**Origins Software**  
Cambridge, MA

July 1997 – June 1999

- Helped to develop experimental graphical UI for building flow charts and generating computer code from them

## EDUCATION

**University of Oregon**  
Eugene, OR  
*Master of Science, Computer Science*

September 2001 – December 2004

- Coursework in algorithms, abstract algebra
- Teaching assistant for undergrad algorithms and data structure courses
- Directed Research Project: “Search Algorithms for Permutation Groups” Found cases in the standard open-source program for group theoretic computations (GAP: <http://www.gap-system.org/> ) where computations for permutation groups could be sped up by changing from exponential-time to polynomial-time algorithms.

**University of Oxford**  
Oxford, UK  
*Master of Science, Mathematics and Computer Science*

October 1999 – September 2000

**Dartmouth College**  
Hanover, NH  
*Bachelor of Arts, Computer Science (minor in Mathematics)*

September 1993 – June 1997

## INTERESTS

Square dancing, running, Crystal (programming language), Project Euler, hiking

*References available upon request.*