

VIJAY PANDURANGAN

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PROFESSIONAL EXPERIENCE

Miscellaneous projects

October 2008 - present

- Undertaken research at Columbia University during graduate classes in Urban Economics, and Urbanization in Developing Countries.
- Mentor and on technical advisory panel for SeedCamp London, a primere European seed fund and entrepreneurial network.
- Partner in XGYC, an angel fund with stakes in Silicon Valley tech startups.
- Guest seminar lecturer for junior and senior students at B.N.M. Institute of Technology, Bangalore.

Google

July 2002 - October 2008

Mountain View, CA (2002-2006), New York, NY (2006-2008)

Manager and Technical Lead, Cluster Scheduling and Utilization

- Managed and developed five direct employees.
- Designed and implemented automated systems to improve job scheduling on a massive distributed compute cluster (most Google production machines): automated migration, time-shifting, and prediction of resource requirements.
- Automated capturing, logging and analysis of all disk activity by every process in production at Google, including writing parts of daemon, collection systems, and changes to the Linux kernel.

Fleet File Synchronization (Technical Lead)

- Designed, implemented and deployed a control and deployment system for all system files on Google's entire machine fleet (many hundreds of thousands of machines).
- System required integration of daemons, digital signatures, encryption, peer to peer mesh copying, and the development of a specially-designed configuration language.

Software Engineer

- Technical lead and developer on a system to store historical transactions on all Ads accounts, including new user interface. Primarily in Java.
- Designed a generic system to allow for distribution of secret data through existing file distribution legacy systems which relied on public access to data.
- Developer on a distributed database system that tracks users, their capabilities, and login access to production machines.
- Developer on global Account Management System - a distributed system which quickly updates machines with lists of users allowed to access them and what capabilities they should be afforded.
- Designed and implemented system used to log users into Google accounts through mobile phones. This is currently used by all mobile users and applications worldwide.

Other significant contributions

- Worked with members of the Executive Management Group to create Google Grants, a program to give free ads to charitable organizations.
- Helped Organize Google Code Jam (large programming competition with \$25k in prizes) 2003-2005.

EDUCATION

Master of Science, Electrical and Computer Engineering

Carnegie Mellon University. Pittsburgh, PA. GPA 3.90

August 2002

Bachelor of Science, Electrical Engineering and Computer Science

The George Washington University. Washington DC. Summa cum Laude GPA 3.96

May 2000