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Parth Upadhyay

Education

08/10 - 05/14 **University of Texas at Austin**, *Computer Science, B.S.* ***GPA: 3.84 / 4.00***.

Relevant Coursework: Advanced Operating Systems, Compilers, Artificial Intelligence, Programming Languages, Network Security/Privacy, Distributed Computing, Multicore Programming

Employment History

01/13 - 12/13 **Teaching Assistant, Operating Systems**, *Dr. Michael Walfish, Dr. Ahmed Gheith*.
Reinforced course material for students by reviewing class lectures, by creating quizzes, review packets, and coding assignments, and by tutoring students individually during office hours. Delivered a class lecture on input/output and disks on behalf of the professor

05/13 - 08/13 **Software Development Intern**, *Square*, San Francisco, CA.
Developed and improved various Square services as part of a full-stack product team, working primarily in ruby, javascript, and java

05/12 - 08/12 **Software Development Intern**, *Facebook*, Seattle, WA.
Improved tools for assessing chat reliability on the Real Time Infrastructure team

08/11 - 12/11 **Undergraduate Teaching Assistant - Research Methods**, *University of Texas*.
Mentored a group of six students in the area of research and independent inquiry for a unique class taught by the Dean of the Natural Sciences

05/11 - 08/11 **Financial Software Development Intern**, *Bloomberg L.P.*, New York, NY.
Developed infrastructure to support data retrieval from new financial exchanges and created a tool to increase the efficiency of quality control processes in software development

Skills

Proficient: Java, Ruby, C/C++, *NIX platforms

Experienced: Python, Javascript, Django, Rails, JQuery, Node.js, HTML/CSS, Git/Svn, Rspec

Projects: Implemented a threadpool and network proxy in C, large parts of the JOS operating system (VM, filesystems, network/audio drivers, scheduling, multithreading), and many graph algorithms (SSSP, connected components, pagerank) efficiently for multiple cores. Currently coauthoring a CMS in Django for Texas 4000 for Cancer

Organizations

Texas 4000 for Cancer, Nonprofit: Raise over $6,300 and bike over 4500 miles from Austin, Texas to Alaska in order to promote cancer research and awareness in local communities across the United States. Manage all gear and equipment issues for the team as Equipment Chair and organize community outreach events along the ride as part of the Program Development Committee

Dean's Scholars Council: Organized an ongoing high school tutoring program for Dean's Scholars, and contributed to planning for service and social events as part of a team seeking to engage Dean's Scholars with one another and with their community