Parth Upadhyay

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Education

08/10 - 05/14   **University of Texas at Austin**, *B.S. in Computer Science,* **GPA: 3.92 / 4.00**.
Honors Programs: Dean's Scholars, Turing Scholars

Relevant Coursework: Data Structures and Algorithms, Computer Systems I/II, Advanced Operating Systems, Programming Languages, Graduate Compilers, Artificial Intelligence, Logic I/II

Employment History

10/11 - Current   **Software Development Intern**, *Loku*, Austin, TX.
Loku is a startup that specializes in local search and allows users to become aware of local food, deals, and events.
- Writing/Running distributed jobs using Cascalog on Hadoop and maintainng ec2 clusters
- Writing a distributed web crawler based on javascript, node.js, redis, and RxJs

08/11 - 12/11   **Undergraduate Teaching Assistant - Research Methods**, *University of Texas at Austin*.
A unique class taught by the Dean and offered to Dean's Scholars and other Honors Students as a precursor to the Freshmen Research Initiative.
- Mentored a small group of students in the area of research and independent inquiry; encouraged creativity in the sciences

05/11 - 08/11   **Financial Software Development Intern**, *Bloomberg L.P.*, New York, NY.
- Built infrastructure to support data retrieval from new exchanges
- Developed internal tools to optimize quality control in the development process

Research

08/11 - Current   **Client Driven Pointer Analysis**, *Advisor: Calvin Lin*.
Implementing Samuel Guyer's Ph.D Thesis concerning "client driven pointer analysis" in LLVM with a team of undergraduates.

01/11 - 05-11   **Freshmen Research Initiative: Autonomous Vehicles**, *Advisor: Michael Quinlan*.
Worked on developing infrastructure to help the autonomous vehicle react more dynamically to signs.

Skills

Proficient   Java, Python, C/C++, *NIX platforms

Experienced   Lisp/Scheme/Clojure, Javascript, Node.js, redis, JQuery, Cascalog, Hadoop Mapreduce, Amazon EC2, Chef, MYSQL, LLVM, Google App Engine, Git/Subversion

Projects   Implemented a threadpool and network proxy in C; Implementing large parts of the JOS operating system; On a team that won "Best Mobile App" at the UT Yahoo Hackathon; Participated in 3 Day Startup building a social media aggregation service for small businesses.