Parth Upadhyay

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Employment History

10/11 - Current   **Loku**, *Software Development Intern*, Austin, TX.

Loku is a startup that specializes in local search and allows users to be more aware of community events and going-ons.
- Writing/Running distributed jobs using Cascalog on Hadoop and maintainng ec2 clusters
- Writing a distributed web crawler using node.js, redis, and RxJs

08/11 - 12/11   **University of Texas at Austin**, *Undergraduate Teaching Assistant - Research Methods*, Austin, TX.

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   **Bloomberg L.P.**, *Financial Software Development Intern*, 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

Education

Aug 2010–May 2014   **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, Advanced Operating Systems, Programming Languages, Graduate Compilers, Artificial Intelligence, Logic I/II

Skills

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

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

Projects   Implemented a network proxy and threadpool in C, implementing large parts of the JOS operating system, won best mobile app at the UT Yahoo Hackathon, participated in 3 day startup building a social media aggregation service for small businesses.