

# 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

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## Employment History

- 10/11 - Current **Software Development Intern, Loku, Austin, TX.**  
Loku ([www.loku.com](http://www.loku.com)) is a startup that specializes in local search and allows users to more easily become aware of events in their communities.
  - Writing/Running distributed jobs using Cascalog on Hadoop and maintaining 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.**  
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

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## 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.

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## Skills

- Proficient Java, Python, C/C++, \*NIX platforms
- Experienced Lisp/Scheme/Clojure, Javascript, Node.js, redis, JQuery, Cascalog, Hadoop Mapreduce, Amazon EC2, Chef, XHTML/CSS, 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.

