DHRUV MEHRA

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EDUCATION

Georgia Institute of Technology, Atlanta, GA	August 2014 – present
Candidate for Bachelor of Science in Computer Science	Expected Graduation: May 2018
Threads: Systems Architecture and Intelligence	Cumulative GPA: 3.78 (Dean's List and Faculty Honors)
Languages: English, Hindi, French	Credits completed: 109 credit hours

EXPERIENCE

Software Engineering Intern at Apple Inc. | Cupertino, CA   May 2017 – August 2018
Intern on the CoreOS Flash Storage Software team.   Full Time
- Developed an internal tool that logs and replays all the filesystem operations on a drive.   (13 weeks)
- Made contributions to the XNU kernel.
- Tool helped A/B test features in a new filesystem.

Software Engineering Intern at UserIQ | Atlanta, GA   August 2017 – present
A customer growth platform that helps display in-app messages and tours to customers,
while providing insight on user behavior.   May 2016 – April 2017
- Wrote the Salesforce integrated prospecting tool used by interns to scout leads.   Full Time and Part time
- Built a demo app used by Sales team, and automated its deployment process.   (46 weeks)

Software Engineering Intern at Butterfly Interactives | New Delhi, India   June 2015 – July 2015
A marketplace app for activities for kids and adults.   Full Time
- Worked on an Android app that lets parents schedule, find and book activities for kids.   (8 weeks)

LEADERSHIP, PROJECTS and RESEARCH

Identification of Hand Motion | Team Research under Dr. Irfan Essa   December 2016 – present
Predict sensor values based on x-ray videos to help amputees learn musical instruments.
- Responsible for training the model that predicts sensor values.
- Researching tools used: Python, TensorFlow.

Computer Architecture | CS2200 Project   August 2016 – December 2016
Simulated several key features of a modern OS and processor.
- Built a 5-stage pipelined processor on Logisim.
- Simulated a 2 level fully associative cache and set associative cache in C.
- Simulated virtual memory with multi-level page tables in C.
- Implemented a multiprocessor scheduler using Linux pThreads library in C.

Machine Learning | CS4641 Project   January 2017 – May 2017
Explored concepts of ML and reported findings as 4 papers. Topics:
- Supervised Learning, Unsupervised Learning, and Reinforcement Learning
- Randomized Optimizations

Atlas | Personal Team Project   January 2017 – present
A location based social networking platform.
- Tools used: Python Django, Android, OpenMap, AWS.

Georgia Tech Solar Home | Personal Team Project   November 2015 – May 2017
A net zero energy and water consumption house being built for Atlanta.
- Computing Team lead from Spring 16 to Fall 16.
- Working with team to design and build the IoT platform for the house.

SKILLS

Proficient: Python, C, Java, Ruby, Javascript, Android, Linux, git,   **Exposed To:** Multithreading, Junit, SQL, TensorFlow.
Typescript, Ruby on Rails, Heroku, MATLAB, Processor Design.   **Learning**: Haskell, OpenCV, Swift, iOS.

RELEVANT CLASSES

Data Structures and Algorithms	Computer Vision	Operating Systems	Machine Learning	Artificial Intelligence	Design and Analysis of Algorithms	Processor Design