CHAITYA SHAH

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Education

Georgia Institute of Technology - Atlanta, GA — 8/15 - 12/18 (Expected)
- GPA: 3.58/4.0
- BS in Computer Science - Devices and Intelligence Threads.

Experience

Uber ATG - Software Engineering Intern - Performance Analysis — Summer 2017
- Worked in Uber's Advanced Technologies Group, Uber Engineering's autonomous vehicle effort. Implemented features for the vehicle regression management system, an application used to manage vehicle regressions as autonomy code is deployed.
- Replaced the use of several different tools across ATG with one unified management system, allowing easier collaboration between teams and faster autonomy development.
- Technologies: Python, Flask, React, C++, GraphQL, Elasticsearch, Git, Arcanist

Uber - Software Engineering Intern - Maps Services — Summer 2016
- Developed critical features for an internal tool that is used to curate map data affecting hundreds of millions of riders and driver partners. Developed on both server and client side, creating functionality that communicated with various data stores and teams across Uber.
- Technologies: Java, React, HTML, CSS, ImmutableJS, Git, Arcanist

Lockheed Martin - College Student Tech Spec I — Summer 2015
- Developed an automated testing framework for testing a web application used to manage internal research and development projects.
- Technologies: Java, XML, HTML, ClearCase

Research

RAIL - Undergraduate Researcher — 8/17 - Present
- Working in the Robot Autonomy and Interactive Learning Lab (RAIL), assisting with the development of a system which will use spatial semantic embeddings to quantify and reduce the disorder of a room. Specifically developing the 2D Object Detection and SLAM Pipeline.
- Technologies: C++, Python, ROS, PCL, iai-kinect, RGBD-SLAM, PyTorch, TensorFlow

Projects & Volunteer Work

MiddleMan — 5/17 - 12/17
- Desktop and Android middleware used to transfer DJI drone data in real time from the drone, to the Android device, and finally, to the computer. The middleware will be accessed through an API, where each endpoint will yield a stream of data from the MiddleMan pipeline.
- Technologies: Java (Android), DJI Mobile SDK, socket.io, Flask (Python)

Drone CV — 8/17 - 12/17
- Using the API created by MiddleMan (see above), the video stream from the drone will be analyzed using OpenCV, starting with a simple Canny edge detector.
- Technologies: OpenCV

OpenMRS Open Source Organization — 11/14 - 2/18
- Contributed to various OpenMRS projects, impacting hundreds of users.
- Earned Google Code-in 2014 Grand Prize
- Google Code-in 2015 Student Mentor
- Google Code-in 2016 Co-Organization Administrator

Honors

1st Place FINRA Prize - DataDome - devpost.com/software/datadome-jinc1t	9/17
Top 8@HackGT - Tapleau - devpost.com/software/tapleau	9/16
1st Place Firebase Prize@MHacks - Keller - devpost.com/software/keller	2/16
Top 6@HackFSU - Reminisc - devpost.com/software/reminisc-815cy7	2/16
1st Place@SwampHacks - Iris - devpost.com/software/iris-mvcs0i	1/16
Best Location-Based App@HackDuke - CrowdNine - devpost.com/software/crowdnine	11/15
Google Code-in Grand Prize Winner - OpenMRS - google-melange.com/archive/gci/2014	1/15

Skills & Interests

Programming: Java, Python, C++, Javascript
Tools/Platforms: scikit-learn, scikit-image, PyTorch, TensorFlow, ROS, Git
Communication: Agile Software Development, Open Source Software Development
Interests: Robotics, Computer Vision, Machine Learning, Artificial Intelligence