Karan Shah

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kshah88@gatech.edu | US Citizen | Secret Level Security Clearance (DOD Issued)

OBJECTIVE

Results oriented 4th year Computer Engineering student with practical experience in machine learning, security, and software development. Seeking an internship in the summer of 2018 with research and development or product creation opportunities.

EDUCATION

Georgia Institute of Technology | College of Engineering **August 2014 – December 2018**
Candidate for Bachelor of Science in Computer Engineering

- Overall GPA: 3.33/4.0

EXPERIENCE

Capital One **June 2017 – August 2017**
Software Engineering Intern

- Designed and developed a real-time API monitoring system using Python and Amazon Web Services(AWS) that could identify response times and latency when APIs are experiencing high volumes of load or when they are down
- Deployed application on AWS Lambda to five AWS regions around the world allowing developers to see how their APIs were performing from different regions of the world
- Leveraged InfluxDB to store all the metrics from each API call and Grafana dashboard to allow users to visualize how their APIs are performing over time

Georgia Tech Research Institute | CIPHER Laboratory **January 2017 – May 2017**
Software Engineering Co-op (2nd Term)

- Developed an image recognition, machine learning model using Python, Scikit-Learn, and OpenCV that achieved 98% accuracy in detecting the correct set of images
- Used supervised learning to train the image recognition model and used the Support Vector Machine as the classifier to determine which image was valid
- Built a Python plugin that would parse through a memory dump string using Python's Pyparsing library and would extract relevant information from the contents of the memory dump

Georgia Tech Research Institute | CIPHER Laboratory **May 2016 – August 2016**
Software Engineering Co-op (1st Term)

- Tested a grey-box fuzzing software using Python and Pytest that resulted in a 10% decrease in the bugs that were previously undetected
- Presented GIT LFS to a team of senior engineers, which made it easier for developers to access and store large box files instead of using a server

Georgia Tech College of Computing **August 2015 – Present**
Teaching Assistant, Computing for Engineers

- Taught a weekly recitation class of 50 students in MATLAB and helped manage a class of 1000 students per semester
- Contributed to student learning assessments by writing test questions for mid-term and final exams
- Designed and created an autonomous homework grader using MATLAB with a team of four teaching assistants that improved homework grading efficiency and accuracy.
- Developed strong communication and interpersonal skills, through teaching and interacting with students on a daily basis

SKILLS

Programming Languages: Python, C++, JAVA, C, MATLAB
Cloud Services: Amazon Web Services (Lambda, EC2, S3, and CloudWatch)
Hardware: ARM mbed, FPGAs, Arduino, TI-eZDSP board, oscilloscope, logic analyzer, NI myDAQ
Communication: Public speaking, technical presentations, proposals, interpersonal skills
Languages: Native in English, Hindi, and Gujarati/Intermediate in Spanish

LEADERSHIP

Eta Kappa Nu, ECE Honors Society **January 2016 – Present**
Treasurer

- Supervised fundraising event that sold electrical and computer hardware parts around campus that raised about $1,000