Varun Kulkarni

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Education

GEORGIA INSTITUTE OF TECHNOLOGY, College of Computing — **Atlanta, GA**
Candidate for Bachelor of Science in Computer Science — Expected May 2022
GPA: 3.23, CS GPA: 3.60 — Dean's List Spring 2020
Relevant Coursework: Data Structures & Algorithms (Java), Object Oriented Programming (Java), Introduction to Artificial Intelligence (Python), Systems & Networks (C), Linear Algebra, Discrete Mathematics

Experience

Openet Telecom — **Reston, VA**
Software Engineering Intern — *May 2019 – August 2019*
COMP – Centralized Operations Management Platform (COMP), Openet's premier data analytics & visualization platform

- Successfully completed end-to-end installation, configuration, customization, and testing of COMP
- Funnled alarms, events, and KPI data from the Openet Policy Charging & Rules Function (PCRF) using Elasticsearch and displayed integrity and performance of the systems using Kibana & Grafana
  - Ensured 5 9s availability of tracked system
- Demonstrated capabilities of COMP (dashboards, querying of clusters) and presented future capabilities (machine learning, anomaly detection) of the solution to an Openet client

PCRF – Policy & Charging Rules Function, used in operator's network to enforce policy control & flow-based charging

- Installed PCRF solution on an Openet satellite customer's production cluster and conducted multi-day performance testing at up to 2000 TPS of SOAP and Diameter traffic using JMeter
- Generated reports including in-memory database performance, solution latency and traffic statistics, and alarm counts that were verified by Openet development team and visualized on COMP

Projects

EcoCAR Mobility Challenge — **Atlanta, GA**
Connected & Automated Vehicles Subteam Member — *August 2019 – Present*

- Collaborating with engineering and computer science students to transforming a standard Chevrolet Blazer into a hybrid-electric and semi-autonomous vehicle
- Applying sensor fusion algorithms in Matlab and Simulink to alert the driver if vehicles are in the blind spot of the car
- Completed models of blind spot detection which are able to sense other vehicles inside the blind sopt extending 20 meters behind the main car with 70% reliability

Student Center Programs Council, Georgia Tech — **Ashburn, VA**
Back-end Developer — *March 2019 – May 2019*

- Helped implement part of the Program Council's NodeJS backend system for information, scheduling, and sign-in on-campus events sponsored by the university
- Used NodeJS with Express and MongoDB server models to configure routes, host data, and simulate API requests to the data related to users and events
- Assisted in integrating the new backend with a front-end using ReactJS

Skills

Technical Skills – Java, Amazon Web Services (AWS), GitHub, JavaScript, Python, Linux, Elasticsearch and ELK Stack, Grafana, HTML, CSS, JMeter, Inkscape, Machine Learning, Artificial Intelligence
Certifications – Certified AWS Solutions Architect (Expires August 2022)
Interests – Singing, Hip Hop/Urban Dance, Weightlifting, Cycling, Tennis