



Varun Kulkarni

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Education

GEORGIA INSTITUTE OF TECHNOLOGY, College of Computing

Candidate for Bachelor of Science in Computer Science

GPA: 3.23, CS GPA: 3.60

Atlanta, GA

Expected May 2022

Dean's List Spring 2020

Experience

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
- Working with Matlab and Simulink to simulate vehicle's internal and external sensors, radars, and cameras.
- Applying sensor fusion algorithms to reliably detect vehicles in the blind spot of the vehicle and efficiently alert the driver
- Utilizing the New Eagle Raptor controller setup to test CAN channels and signals for sensors on the vehicle

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, product customization and testing of COMP
- Created live dashboards with Elasticsearch, Kibana, & Grafana to monitor KPIs, alarms, and event records from Openet Policy & Rules Function (PCRF) and Online Charging System (OCS)
 - Ensured 5 9s availability of the 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 deployment
- Successfully conducted multi-day performance testing at up to 2000 TPS on production cluster by pushing SOAP and Diameter traffic through a JMeter testing suite
- 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 deployment

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