Aravind Segu

3rd Year Software Engineering Student

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Education

University Of Waterloo 2016 - Present Software Engineering

Option in Artificial Intelligence GPA: 3.9/4

Stanford University Jan - Apr 2018 Machine Learning Course

Skills

Languages:

Java, Python, C/C++, PHP, Go, Scala, C#, Octave, JavaScript

Frameworks and Tools:

React, ASP.NET, AngularJS, ¡Query, Pandas, Selenium, Flask, Ionic, Unity3D, Elasticsearch

Database and Servers:

SQL, Maven, ApacheTomcat, AWS

Awards & Certifications

Hack The Valley MLH 3rd Place from 76 Teams	2018	
Electric City Hackathon Top 5 and Recipient of Wolfram Alpha Award	2017	(
DRW Outstanding Employee Recognition	2018	
Bluejay Networks Excellent Employee Recognition	2017	(
Term Dean's Honors List 1A, 2A, 2B	2018	
Oracle Certified Associate Java SE7 Programmer	2016	

Work Experience

Reebee | Backend Software Engineer PHP, Go, MySQL, Elasticsearch

- Redesigned database architecture to reduce storage space by 20% and **improve response time** by more than 40% for users
- Integrated **Sutherland-Hodgman algorithm** to better assign products with images, increasing the probability of a correct match by 60%
- Utilizing Elasticsearch to develop a full text search engine for a database with more than 1 million items

DRW | Full Stack Developer

Jan 2018 - Apr 2018

Sept 2018 - Present

JavaScript, Python, React, ASP.NET, MySQL

- Integrated Dijkstra's algorithm with google maps to develop a web interface that determines the shortest network path which connects data centers across the world
- Developed and deployed a single-page web application to handle data management and configuration of more than 70 web scrapers.
- Programmed dynamic and flexible web-scrapers utilizing Python and Scrapy to collect relevant competitive intelligence information

Bluejay Networks | Software Engineer May 2017 - Aug 2017 Java, JavaScript, Angular, MySQL, Ionic, AWS

- Pioneered an **electronic prescription platform** for mobile and web environments
- Utilized Java EE with the Spring Framework, SQL and AWS to build and deploy backend codebase
- Developed supporting **Android**, **iOS** and Web applications utilizing Ionic, JavaScript and AngularJS

Student Design Team

- Watonomous | Path Planning Team Member Sept 2018 Present C++
 - Involved in developing an autonomous self-driving vehicle for the SAE AutoDrive Challenge
 - Redesigned the costmap to integrate various obstacles on the road to reduce latency by more than 70%
 - Responsible for enhancing the A* algorithm to calculate the ideal path for the car while obliging with traffic rules

Select Projects

DriveSafe

Mar 2018 - Present

Python

- Designed a three-layer neural network which performs photo recognition to identify different types of impaired driving
- Implemented PCA, conjugate graduate algorithm and regularization to prevent overfitting and improve the rate of training

Packetty | Hack The North

Sept 2018

Raspberry Pi, Java, Python, Microsoft Azure, Firebase

- An **intelligent security system built** from two Wi-Fi transmitting devices which utilizes Wi-Fi strength to trigger a surveillance camera
- Integrated Microsoft Azure for face detection and Firebase for real time notifications on an android application upon a forced entry