Aravind Segu

3rd Year Software Engineering Student

aravindsegu.com

xasegu@edu.uwaterloo.ca

(519) 500-5487

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Skills

Languages:

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

Frameworks and Tools:

Pandas, Selenium, Apache Kafka, Flask, Ionic, Unity3D, Elasticsearch, React, ASP.NET, AngularJS, jQuery,

Database and Servers:

SQL, PostareSQL, AWS

Education

University Of Waterloo 2016 - Present

Software Engineering Option in Artificial Intelligence GPA: 3.9/4

Stanford University Jan - Apr 2018

Machine Learning Course

Awards & Certifications

Hack The Valley 2018 MLH 3rd Place from 76 Teams

Electric City Hackathon

2017 Top 5 and Recipient of

Wolfram Alpha Award Dean's Honors List 2016 - 2019

2016 Oracle Certified Associate Java SE7 Programmer

Royal Canadian Air Cadets 2016 Effective Speaking Award

Work Experience

Apple | Siri Understanding Software Engineer May 2019 – Present Java, Apache Kafka

- Improved performance and reliability of Siri Training Data Systems which support over 150,000 requests per week.
- Removed dual responsibility on data chard servers to **decrease** response time by over 15%
- Utilizing Apache Kafka to reduce server instances by over 50% while simultaneously increasing fault tolerance and reliability

Reebee | Backend Software Engineer

Sept 2018 - Dec 2018

PHP, Go, MySQL, Elasticsearch

- Restructured and optimized the database architecture to reduce storage space by 6% and improve response time by more than 20%
- Integrated Sutherland-Hodgman algorithm to better assign products with images, increasing the probability of a correct match by 60%
- Utilized **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 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
- 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 | Subteam Lead Path Planning Sept 2018 Apr 2019
 - Involved in developing an autonomous self-driving vehicle for the SAE AutoDrive Challenge
 - Leading a team of 10 members to redesign 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

2019

- 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