

# Aravind Segu

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## Skills

**Core Languages:** Java, Python, C/C++, Scala, C#, Octave, JavaScript

**Frameworks and Tools:** React, ASP.NET, AngularJS, jQuery, Selenium, Flask, Ionic, Bootstrap, Unity3D, Linux

**Database and Servers:** MySQL, Maven, ApacheTomcat, Amazon Web Services, Salesforce, Pivotal, Oracle

## Work Experience

### Vigilant - A DRW Company · Full Stack Developer

Jan 2018 - Apr 2018

- \* Combined **Google Maps**, **React**, **ASP.NET** with **Dijkstra's algorithm** for a web interface that calculates the **shortest path** between two data centers across the world in a vast network connected by more than **10,000** towers.
- \* Developed and deployed a **Single-Page web application** utilizing **React** with **ASP.NET** Web API to display data and configure more than **70 web scrapers** used by Vigilant Global Network Architecture department.
- \* Developed **dynamic** and **flexible web-scrapers** utilizing **Python** and **Scrapy** to collect competitor information
- \* Utilized **ASP.NET** with **MVC** and a **SQL** Database to create a **robust web interface** to display and edit information

### Bluejay Networks · Software Engineer

May 2017 - Aug 2017

- \* Utilized **Java EE**, **Apache Tomcat7** server, **Spring** framework, **AWS** and **REST API** to build and deploy **backend** codebase for the transmission of an **electronic prescription**
- \* Developed supporting **Android** and **iOS** application utilizing **Ionic**, **JavaScript** and **AngularJS**
- \* Developed and deployed **frontend** of **Web** application utilizing **JSP**, **Bootstrap** and **Angular** frameworks

## Selective Projects

### DriveSafe · Python

Mar 2018 - Present

- \* Designed a **four layer neural network** to perform **photo recognition** to identify different types of **impaired driving**
- \* Implemented **PCA**, **conjugate gradient** algorithm and **regularization** to prevent overfitting and improve the rate of training

### Findr · Python, OpenCV, Raspberry Pi · Hack the Valley

Feb 2018

- \* A **self driving autonomous robot** with integrated **webcam** and **ultrasonic** sensors to locate people in a building
- \* Utilizes **Open CV** to **detect people** and **Firebase** to establish a **real time web interface** to plot GPS co-ordinates

### Decuple · Unity, C#

Jul 2017

- \* An interactive **10 level cross platform game** developed for **desktop** and **mobile** on **Unity3D**
- \* Mobile version utilizes the **gyroscope** and **accelerometer** to move the player based on phone's angle

## Awards and Certifications

**Hack The Valley** - MLH 3rd Place from 76 Teams

2018

**Electric City Hackathon** - Top 5 and Recipient of Wolfram Alpha Award

2017

**Term Dean's Honors List** - 1A and 2A

2017

**Oracle Certified Associate Java SE7 Programmer**

2016

## Education

Candidate for Bachelor Of Software Engineering - **University of Waterloo** - **GPA: 3.88**

2B - Class of 2021

Machine Learning Course - **Stanford University**

Jan - Apr 2018