Aditya Subramaniam

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Education

Purdue University, West Lafayette, IN **May 2021**

- Bachelor of Science in Computer Science GPA: 4.0/4.0
  - Concentration in Software Engineering and Machine Learning
  - Minor in Management
- Relevant Coursework: Data Structures and Algorithms, Computer Architecture, Statistics, Probability, Multivariate Calculus, Elementary Linear Algebra, Discrete Mathematics

Skills

Programming Languages- Java, Python, C, C++, SQL, HTML/CSS, LaTeX

Technologies- Git, Unix, PostgreSQL, Amazon Web Services (Continuously Learning), Heroku, Mockito, Spring, Flask, NumPy, Windows, Mac OS, Android Development

Industry Knowledge- Agile, Test Driven Development

Languages- English (primary), Spanish (proficient), Tamil (proficient)

Work Experience

Software Developer Intern, John Deere, Intelligent Solutions Group **May – Aug 2018**

REST API Development and Deployment

- Improved performance of machine tracking application for dealers by developing REST API's to filter machines based on location, distance, and other information from PostgreSQL databases
- Implemented API's with Java/Spring and deployed onto cloud using AWS and continuous integration
- Focused on agile software methodologies as well as test driven development within team

Projects

See **github.com/subram43** for full details and code for side projects

Linear Algebra Calculator **Jun 2018**

Web Application created with Python, Flask, HTML/CSS, and Heroku

- Developed a web application for college students to perform common math operations on matrices with Python's NumPy and SciPy libraries, which will allow them to study more efficiently
- Connected backend Python script to frontend HTML using flask framework
- Deployed to the web on www.linearalgebraplus.com using Heroku tools and AWS Route53

Vacation Planner App **Dec 2017**

Android App created with Java and xml

- Created Android application for travelers to plan out travel and organize vacation plans into different notes for easy accessibility
- Used concepts from prior Java course and Android Studio to design mobile application with xml frontend design and Java backend

FTC Robot Controller **Nov 2016 – Mar 2017**

A set of programs created with Java to run robotics team's robot

- Generated autonomous and controller-operated programs to make the robot complete certain missions on a playing field, using Java and Android Studio
- Made robot respond to certain sensor triggers using event-driven programming, resulting in better performance at state competition and award for an innovative solution.

Awards

Scholarships

- Purdue University- Presidential Scholar (Awarded to 10% of class) **Aug 2017 – May 2021**
- Purdue University Computer Science Department- Hopper Scholarship **Apr 2018**