

# Aditya Subramaniam

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## EDUCATION

### PURDUE UNIVERSITY

#### B.S. COMPUTER SCIENCE

Graduation December 2020

GPA: 3.99 / 4.00

## SKILLS

### PROGRAMMING

Java • Python • C

C++ • C# • Swift

HTML • CSS • JavaScript

### TECHNOLOGIES USED

Docker • Git • Heroku • Azure

Flask • Node.js • React.js

SQL • MongoDB • Firebase

### INDUSTRY KNOWLEDGE

Agile • Test Driven Development

### LANGUAGES

English • Tamil • Spanish

## COURSEWORK

### COMPUTER SCIENCE

Analysis of Algorithms

Operating Systems

Compilers Design

Computer Networks

Relational Databases

Computer Security

Computer Architecture

Machine Learning

Artificial Intelligence

Web Information Retrieval

### MATHEMATICS

Intro to Statistics

Probability

Elementary Linear Algebra

Multivariate Calculus

Discrete Mathematics

### RELEVANT

Technical Writing/Presentation

Management Accounting

Microeconomics

## LINKS

Github:// [subram43](#)

LinkedIn:// [subram43](#)

## CORPORATE EXPERIENCE

### MICROSOFT | SOFTWARE ENGINEERING INTERN | MAY 2020 - AUG 2020

#### AZURE APP SERVICE TEAM

- Improved reliability of customer web applications by hosting app service plans amongst multiple availability zones within Azure regions
- Implemented algorithms in **C#** and **T-SQL**, utilizing **Kusto** for runtime data

### SALESFORCE | SOFTWARE ENGINEERING INTERN | MAY 2019 - AUG 2019

#### EMAIL INFRASTRUCTURE TEAM

- Designed automated testing framework with **Docker** and **Python SMTP** to remove costly setup procedure for Salesforce Email Service
- Reduced cost of running tests from 3 days to 5 minutes with containerization

### JOHN DEERE | SOFTWARE ENGINEERING INTERN | MAY 2018 - AUG 2018

#### INTELLIGENT SOLUTIONS GROUP

- Developed API with **Java Spring Boot** to filter company machines based on location and distance, utilizing **AWS EC2** and **RDS** for deployments
- Improved speed of machine tracking application for dealers by 15%

## TEACHING EXPERIENCE

### TEACHING ASSISTANT | PURDUE UNIVERSITY | JAN 2019 - PRESENT

#### FOUNDATIONS OF COMPUTER SCIENCE

- Ran weekly reviews to help students with discrete math concepts
- Designed challenging problems to help students prepare for exams

### USB HELP ROOM TUTOR | PURDUE UNIVERSITY | JAN 2019 - PRESENT

- Held tutoring sessions to help freshman students with assignments
- Assisted students with use of debugging tools, such as GDB and IntelliJ

## PROJECTS

### EVENT PLUS | TEAM PROJECT | APR 2020

- Developed iOS app with **Swift** and **Xcode** for users to host public gatherings
- Utilized **Firebase** Authentication and Database for Google login and storing data
- Implemented venue selection and distance filter search with **Google Maps API**

### RATE MY COURSES | PERSONAL PROJECT | DEC 2019

- Created forum for students to share course opinions through **Node.js** site
- Stored entity data in **MongoDB Atlas** and hosted site on **Azure App Service**

### SPORT SHARING SERVICE | TEAM PROJECT | DEC 2018

- Connected athletes through **Flask** site for sharing sports equipment
- Created pages with **Bootstrap** / JavaScript, and used **Firebase** for storing data

### LINEAR ALGEBRA CALCULATOR | PERSONAL PROJECT | JUN 2018

- Developed **React.js** site with Python **Flask** server to perform matrix operations
- Used **numpy** / **scipy** for operations and deployed with **Heroku** and **AWS Route53**

## AWARDS

Purdue University- Presidential Scholar (Top 10% of class), 2017 - 2020

Purdue University- Computer Science Scholarship, 2018 - 2020