Vybhav Achar Bhargav

Full Stack Developer

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Experience

RealTime, Novateur Inc: Santa Cruz, CA - Android Developer
October 2017 - September 2018

- Created an application that allows students to find events and meet others through events and experiences.
- The application was written in **Kotlin,** bundled with **Java** for smaller components of the application
- **Amazon Web Services** were used to handle backend calls. **Firebase Database** used to store user data.
- Worked with **Firebase Authentication** along with the **Twilio** API for secure authentication and phone number verification of users.
- Used the **SendBird** API for the in-app messaging service, giving users the ability to discuss the events with other attendees

Team 2473, Cupertino High Robotics: Cupertino, CA - Software Engineer
June 2016 - September 2017

- Worked with a group of 40 students to create, design and build a robot during the FRC 2016-17 season
- Supported the development of the main control systems, using **Java**, to aid in the debugging and testing of the robots through gameplay
- Built a server-based simulation environment using **Python** to automate queuing of parts testing and Java along with the **Solidworks Simulator** to simulate new parts on a test rig and run automated script testing in the **FRC Simulator.**
- Built a custom set of network utilities to allow a Raspberry Pi to communicate with the robot.
- **OpenCV and LIDAR systems** with Python used to teach the robot obstacle avoidance and targeting for better autonomous gameplay

Education

University Of California, Santa Cruz

B.S. Computer Science   2017 - 2020
GPA 3.52
Coursework

- Object Oriented Programming in **C** and **Java**
- Algorithms and Data Structures, Comparative Programming
- Intro to Analog Circuits with **Assembly,** Computer Architecture
- Discrete Mathematics, Vector Calculus, Linear Algebra

Projects

WhenU - A multi-platform application to access the menus of various dining halls and gives the user the option to find where and when a dish is served. Built an API, named MenuScrape, which efficiently scrapes, stores and delivers data from various universities.
Vue.js | Firebase | Cheerio.js

VerifAi- A cohesive method of taking attendance easier through geo-fencing and location analysis
Kotlin | GeoLocation | Firebase
QR Generation

SeizeIT - Streamlines the process of finding and joining research positions through personalized matching of highly qualified students with professors.
Python | Firebase | Ajax | Javascript

Skills

Java, Python, C, MIPS,
JavaScript, Node.js,
Cheerio.js, Vue.js, Bulma
Firebase, MySQL and Postgres
Git, CI/CD,
ZSH, Bash, and PowerShell
Flutter and Kotlin
Progressive Web Apps
Manjaro(Arch Linux), Ubuntu,

Interests

Natural Language Processing,
Artificial Intelligence
NeuroEvolution of
Augmenting Topologies
Big Data, Security Analysis
Network Management
Network Security
Data Management
Embedded Software