Vybhav Achar Bhargav

✉ contact@vybhavb.com   ✈ www.vybhavb.com   ⌗ vybhavb   in vybhavb

PROFESSIONAL EXPERIENCE

University Of California, Santa Cruz
Teaching Assistant
Mar 2020 – Jul 2020 | Santa Cruz, CA, United States
- Assist a class of 400 students to build web applications using **Vue.js** and **Py4Web**

Novateur Inc
Lead Android Developer
Oct 2017 – Sep 2018 | Santa Cruz, CA, United States
- Created an application that allows students to meet others through events and experiences.
- Application built with **Kotlin** and **Java(Android Development)**
- **Amazon Web Services** 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.
- Streamlined the processes of users meeting up by building in-app group messaging services with the **SendBird API**

PROJECTS

vybhavb
my personal website and blog. Built with **Bulma** and **Next.js** to use server side rendering

choreganizer
a centralized location for roommates to assign chores to each other. Used **Firebase** for the authentication and storage, **Next.js** for server side rendering and **Progressive Web App (PWA)** support which simulates the app to seem native on the major mobile platforms

Bandit Survival
Bandit Survival is a tile rogue based game where you play as a bandit who has to explore, find resources and defeat enemies. The game is built on a procedurally generated system where the level, enemies and weapons are personalized to the player.

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. Uses the open source menu-scrape api, **React** and **PWA** support

menu-scrape
an open-source automated dining hall menu scraper to efficiently scrape, store and deliver data from various universities. Built using **Cheerio.js** to scrape the web pages, hosted on Zeit's **Vercel** platform, **Redis** to store data along with **Amazon Web Services** to automate daily menu retrieval

seizeIt
a research hiring platform to connect highly qualified students with professors and automatically alerts students/professors about potential candidates. Built with **Angular** and hosted on **Heroku**

ORGANIZATIONS

Team 2473, Cupertino High Robotics
Software Mentor
Jun 2016 – Sep 2017 | Cupertino, CA, United States
- Built a server-based simulation environment using **Python** to automate queuing of parts testing
- Built a custom set of network utilities to allow a Raspberry Pi to communicate with the robot.
- Worked with peers to build **OpenCV and LIDAR** systems with Python for Machine Learning and autonomous driving

EDUCATION

Univeristy Of California, Davis
M.S. Computer Science
2020 – Present | Davis, USA

University of California, Santa Cruz
B.S. Computer Science
2017 – 2020 | Santa Cruz, CA, USA
Courses:
- Programming in C/Java
- Algorithms and Data Structures
- Comparative Languages
- Intro to Analog Circuits/Assembly
- Computer Architecture
- Distributed Systems
- Operating Systems and System Design
- Computer Security
- Computer Networking
- Database Systems
- Web App Development
- Discrete Mathematics
- Vector Calculus
- Linear Algebra

SKILLS

Javascript
Node.js, React, Next, Cherrio, Vue, Flutter, React Native, Electron, Light.js, Progressive Web Apps, Express

Python
flask, opencv, py4web, plotly, pandas, numpy

Java
Kotlin, Selenium, Android app development

C/C++
System design

Web
HTML, CSS, SCSS/SASS, PHP, Ruby(on Rails)

Database Systems
MySQL, PostgreSQL, DynamoDB

Firebase
Firebase Auth, Realtime Database, Firestore, Cloud Functions

Git, CI/CD
Git, Circle CI, Netlify, Github/Gitlab CI

Assembly
Risc-V, MIPS, Intel x86

Misc
Linux, ZSH, AWS, Bash, Heroku, Docker

Interests
NLP, NEAT, CTF's, Network Security, Security, ML, AI, Photography