Baibhay Vatsa

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Education

Vanderbilt University, Bachelor of Science

August 2018 - May 2022

- Computer Science, Applied Mathematics and Engineering Management
- Major GPA: 3.85/4.00
- **Selected Coursework:** Algorithms (In Progress), Operating Systems (In Progress), Mobile and Wireless Networks, and Intermediate Software Design

Skills

- Languages: C/C++, TypeScript, Python, JavaScript, Rust, Java, Go, Dart, HTML/CSS, Elixir, Racket, and Prolog
- Technologies: Linux, Git, ROS, Vue, React (Hooks), Node, Flutter, TensorFlow

Selected Experience

VandyHacks | Director of Development

February 2020 - Present

- Leading the team implementing and envisioning technological solutions for VandyHacks, the largest CS org on campus and the annual inter-collegiate hackathon
- Responsible for websites, Vaken (our open source hackathon registration system), synchronisation between dev and other committees, and onboarding new devs on the team.

Chalk Coaching | Full Stack Developer

September 2019 - Present

- Developer for NSF funded PWA based on research from Vanderbilt's Peabody College to help educators promote high quality teaching practices in Pre-K classrooms
- Leading the team implementing the messaging subsystem. Introduced Agile methodology to the team. Hold weekly Scrum meetings.

vFOSS | Mentor

November 2018 - Present

- Fixed issues in VSCode (code editor), Hugo (static website generator), Monet (programming language), and other open source projects
- Responsible for helping students start contributing to and using open source projects and Linux

Advanced Robotics and Mechanism Applications Lab | Intern January 2019 - May 2019

- Initiated the development of cross platform GUI for the haptics devices used in the lab.
- Used C++ and Qt to implement the GUI.

Vanderbilt Robotics | Member

August 2018 - Present

- Programmer for the Rover Mining Challenge 2019 and Lunabotics 2020 competitions teams
- Implemented path planning algorithms for the rover using Python. Worked on mapping and obstacle detection with Microsoft Kinect using rtabmap_ros.
- Working on localization using ChArUco markers with OpenCV and Python.

Selected Projects

Hues and Lows | TypeScript, React, Elixir

- Full stack dev for a PWA with clean UI to help you track and record emotions over time **GradeSense** | Dart, Flutter
 - Mobile app to track and record school grades to help calculate progress

Python-minesweeper | Python

• Minesweeper library implementation with classes for front and back-end

Crypto Notifications | JavaScript, Vue.is, Node.is

• Web app inspired from Silicon Valley to email the users when a cryptocurrency goes out of the desired range. Wrote the front-end with Vue is and the back-end with Node

TopHat Helper | Java, Microsoft Azure

• Used Java and Microsoft Azure's Face API to implement a face counting attendance system to help find discrepancy between the number of students in class versus marked present