Baibhav Vatsa

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Education

Vanderbilt University, Bachelor of Science   *August 2018 - May 2022*
- Computer Science, Applied Mathematics and Engineering Management
- **Major GPA:** 3.82/4.00
- **Selected Coursework:** Algorithms, Operating Systems, Mobile and Wireless Networks, Data Structures, Intermediate Software Design, Linear Algebra, and Probability and Statistics

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

Vanderbilt University | Teaching Assistant   *August 2020 - Present*
- TA for CS 3281: Operating Systems, taught by Professor Piot
- Responsible for grading assignments, holding office hours, and helping students navigate the course content

Microsoft | SWE Intern   *May 2020 - August 2020*
- Worked on internal devops tool to automate and simplify release management pipeline
- Used Docker, Pipelines, and Python for my project

VandyHacks | Director of Development   *February 2020 - Present*
- Leading the 10 person 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.

vFOSS | President   *April 2020 - 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

Chalk Coaching | Full Stack Developer   *September 2019 - May 2020*
- 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.

Vanderbilt Robotics | Member   *August 2018 - May 2020*
- 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

Python-minesweeper | *Python*
- Minesweeper library implementation with classes for front and back-end

Crypto Notifications | *JavaScript, Vue.js, Node.js*
- 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.js and the back-end with Node