Baibhav Vatsa

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Education

Vanderbilt University, Bachelor of Science   *August 2018 - May 2022*
- Computer Science and Engineering Management
- **Major GPA:** 3.8/4.0
- **Selected Coursework:** Algorithms, Operating Systems, Mobile and Wireless Networks, Data Structures, Intermediate Software Design, and Cloud Computing

Skills

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

Selected Experience

Microsoft | SWE Intern   *May 2021 - August 2021*
- Worked with the Azure Core Storage team to port one of the most complex tiering workflows to an entirely new framework
- Ideated, wrote, and implemented the design doc for the workflow including optimizations over last iteration

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

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

VandyHacks | Director of Development   *February 2020 - January 2021*
- Led the 10 person dev team implementing and envisioning technological solutions for the largest CS org on campus and the one of the biggest annual inter-collegiate hackathons
- Responsible for websites, applications, Vaken (our open source hackathon registration system), synchronisation between dev and other committees, and onboarding new devs on the team

vFOSS | President   *April 2020 - May 2021*
- 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
- Led the team implementing the messaging subsystem. Introduced Agile methodology to the team. Held 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 and on localization using ChArUco markers with OpenCV and Python.

Selected Projects

- **python-minesweeper:** Minesweeper library with classes for front and back-end
- **Project Naga:** Story driven character based 2D pixel platformer