

# Vaibhav Sen Malla

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## Education and Skills

### Pennsylvania State University

Bachelor of Science: Information Sciences and Technology (Software Design & Development track)

Major GPA: 3.67, Cumulative GPA: 3.32, Dean's List, Gamma Tau Phi Honors Society

University Park, PA

Graduated: Dec 2020

Extra Online Courses: Harvard's CS50, Princeton's Algorithms Course, Full-Stack Web Development Bootcamp, Complete Python Pro Bootcamp (in progress), Computer Networking

### Technical Skills:

Programming Languages: JavaScript, HTML5, CSS3, Java, Python, SQL

Frameworks/Software: MongoDB, Express.js, React, Node.js, SASS, Scrum, Visio, Git, Adobe XD, InVision, Figma, Bootstrap

## Professional Experience

### Software Engineer, (Ericsson)

*Cradlepoint (acquired by Ericsson), a cloud-managed wireless edge networking technology company*

Boise, ID

Dec 2021 - Present

- Contributed the building of 5G infrastructure solutions in the network intelligence team
- Performed tests as part of code reviews using 6wind virtual networking environments
- Updated client request validations using Python's Validator library for cloud infrastructure project

### Web Developer, (Virufy)

*Volunteer-run project building a global AI database of crowdsourced cough audio recordings to identify Covid-19*

Remote

Sept 2020 - Oct 2020

- Built and managed company website. Analyzed user-activity using heatmaps and Google Analytics
- Collaborated with product designers and UI/UX team to implement UI changes in an agile environment
- Optimized site performance, improved SEO, and increased site traffic by 20%

### Co-founder & Product Manager, (Gage Ventures)

*Startup co-founded with 4 other members mentored at Penn State's Startup Accelerator Program*

University Park, PA

Feb 2020 - July 2020

- EdTech startup developing behavior tracking tools to help teachers and parents of children with ADHD
- Led software architecture, designed wireframes, and led development of MVP using React Native/Node.js
- Received \$15,000 in funding from the Summer Founders program (top 6 teams out of 46)

### HCI Research Intern, (Pennsylvania State University)

*Penn State's College of Information Sciences and Technology*

University Park, PA

May 2019 - May 2020

- Aided PhD researchers with 4 separate projects for the Human-Computer Interaction research program
- Designed 2 prototypes using Adobe XD and Figma for project proposals
- Conducted 6 usability tests for the "Third-Eye" project, aiming to use computer vision and haptic devices to improve the way visually impaired/blind individuals navigate and perform their daily activities

## Recent Projects

### Hermes

- Messenger app with Google/Facebook authentication made with React.js, Firebase, and Chat Engine

Jul 2021 - Sept 2021

### Super Mario World - Google Maps

- Themed version of Google Maps made using Maps JavaScript API from the Google Cloud Platform

Mar 2021 - Apr 2021

### Keeper Notes App

- Personal to-do list app built with React.js (frontend) and Node.js, Express.js, and MongoDB for backend

Feb 2021 - Mar 2021

### Alan AI News Assistant

- Conversational voice controlled news app made with React.js and Alan AI speech recognition platform

Jul 2020 - Aug 2020

### Search & Rescue Navigation App

- Developed using JavaFX and MVC architecture to help first responders locate victims in disaster events

Sept 2019 - Dec 2019

## Volunteering

### Volunteer Assistant Teacher, Pimlico Elementary/Middle School

- Week-long alternative break service trip teaching math and English to first-graders

Baltimore, MD

Mar 2020

### Relief Volunteer, Child Workers in Nepal (CWIN)

- Packaged supplies, and food; sending out approx. 100 crates daily to victims of the Nepal earthquakes

Kathmandu, Nepal

Jun 2015 - Jul 2015