

# Vaibhav Sen Malla

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## Education and Skills

### Pennsylvania State University

University Park, PA

BS in Information Sciences and Technology (Software Design & Development track)

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

Extra Online Courses: Harvard's CS50x | Harvard's Intro to Artificial Intelligence in Python | Princeton's Algorithms Course  
Full-Stack Web Development Bootcamp | Complete Python Bootcamp | Network Architecture Course

### Technical Skills:

Programming Languages: Python, Java, JavaScript, HTML, CSS, SQL

Frameworks/Software: MongoDB, Express.js, React, Node.js, SASS, Scrum, Visio, Git, Adobe XD, Figma, Docker, Jenkins, AWS

## Professional Experience

### Software Engineer, (Cradlepoint)

Boise, ID

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

Dec 2021 - Present

- Built, released, and maintained the NetCloud Exchange platform (a 5G-optimized SD-WAN product)
- Led core data migration project to AWS, successfully managed extensive multi-team code refactoring
- Automated pipelines for AWS/Azure deployment and AMI sharing (reduced 4 hour processes by 97%)

### Web Developer, (Virufy)

Remote

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

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)

University Park, PA

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

Feb 2020 - July 2020

- EdTech startup developing behavior-tracking tools to assist teachers/parents of children with ADHD
- Led planning of software architecture, UX design, and 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 Assistant, (Pennsylvania State University)

University Park, PA

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

May 2019 - May 2020

- Collaborated with PhD researchers on 4 projects for the Human-Computer Interaction research program
- Designed 2 high-fidelity prototypes using Adobe XD and Figma for a family health monitoring project
- Conducted usability tests for the Visual Cortex on Silicon project, aiming to use AR, computer vision, and haptic prosthetics to help visually impaired people navigate in their daily lives

## Recent Projects

### Hermes

Jul 2021 - Sept 2021

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

### Super Mario World - Google Maps

Mar 2021 - Apr 2021

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

### Keeper Notes App

Feb 2021 - Mar 2021

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

### Alan AI News Assistant

Jul 2020 - Aug 2020

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

### Search & Rescue Navigation App

Sept 2019 - Dec 2019

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

## Volunteering

### Volunteer Assistant Teacher, Baltimore elementary school

Baltimore, MD

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

Mar 2020

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

Kathmandu, Nepal

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

Jun 2015 - Jul 2015