

# Vaibhav Sen Malla

vaibhav.s.malla@gmail.com | (917) 969-6095 | [linkedin.com/in/vaibhav-malla](https://www.linkedin.com/in/vaibhav-malla) | [vxm52.github.io](https://vxm52.github.io)

## 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)
- Authored documentations to guide developers on building firmware and virtual machines using VMware
- Automated pipelines for Azure/AWS 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 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 project proposals
- Conducted usability tests for the Visual Cortex on Silicon project, aiming to use augmented reality, computer vision, and wearable haptic devices 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, Pimlico Elementary/Middle School

Baltimore, MD

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

Mar 2020

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

Kathmandu, Nepal

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

Jun 2015 - Jul 2015