## Vaibhav Sen Malla

vaibhav.s.malla@gmail.com | linkedin.com/in/vaibhav-malla | vxm52.github.io

## **Education and Skills**

University of Michigan - Ann Arbor

Master of Science (MS) in Data Science

Pennsylvania State University

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

Major GPA: 3.67 | 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

UC San Diego's Data Structures and Algorithms Course | UC San Diego's Graph Theory

Interaction Design: Designing, Running, and Analyzing Experiments | Georgia Tech's AI, Ethics, and Society

**Technical Skills:** 

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

Frameworks/Software: MongoDB, Express.js, React, Node.js, SASS, Scrum, Linux, Git, Bash, Figma, Docker, Jenkins, AWS, Azure

## **Professional Experience**

Software Engineer II, (Cradlepoint)

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

Dec 2021 - May 2024

Ann Arbor, MI

Expected grad: 2026

University Park, PA

Graduated: 2020

- 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 using Python, Jenkins, and Docker
- Achieved a 94% reduction in processing time for 5-hour tasks from the implemented automations
- Established as go-to expert for NetCloud Exchange's monthly new version deployment plans to PROD

Web Developer, (Virufy)

Remote

Boise ID

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

- Built and managed the 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

Sept 2020 - Oct 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)

Penn State's College of Information Sciences and Technology

University Park, PA May 2019 - May 2020

Mar 2021 - Apr 2021

- Collaborated with PhD researchers on 4 projects for the Human-Computer Interaction research program
- Primarily assisted 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
- Conducted usability tests on the prosthetics in scenario-based environments such as grocery shopping
- Designed 2 high-fidelity prototypes using Adobe XD and Figma for project proposals
- Conducted user studies for the PhamilyHealth project (a photo-sharing system to facilitate family health & wellness collaboration and communication)

## **Recent Projects**

**Hermes** July 2021 - Sept 2021

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

Super Mario World - Google Maps

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

Themed version of Google Maps made using Maps JavaScript APT 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

eFinance - Personal Financing App (team project) Sept 2020 - Dec 2020

Built using Java with JUnit for test-driven development. Authored functional requirements documents.

Alan Al News Assistant July 2020 - Aug 2020

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