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)   Graduated: Dec 2020
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, InVision, Figma, Docker, Jenkins

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Professional Experience

Software Engineer, (Ericsson)   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 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 blind individuals navigate

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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

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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