Vaibhav Sen Malla

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Education and Skills

Pennsylvania State University University Park, PA
Bachelor of Science: 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 CS50, Princeton's Algorithms Course, Full-Stack Web Development Bootcamp, Complete Python
                          Pro Bootcamp (in progress)

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) Boise, ID
Cradlepoint (acquired by Ericsson), a cloud-managed wireless edge networking technology company 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) 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 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) University Park, PA
Penn State's College of Information Sciences and Technology 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 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