

# Vaibhav Sen Malla

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## Education and Skills

### The Pennsylvania State University

Bachelor of Science: Information Sciences and Technology (Software Design & Development Focus)

Major GPA: 3.60, Cumulative GPA: 3.26

Dean's List for College of IST (Spring 2018, Fall 2019, Spring 2020), Gamma Tau Phi Honors Society

Programming Languages: **Java, C++, Python, JavaScript, HTML, CSS, SQL**

Frameworks/Technologies: Adobe XD, InVision, Bootstrap, MongoDB, Node.js, Express.js, React.js, Scrum, Visio, Netbeans

University Park, PA

Expected: Dec 2020

## Professional Experience

### Cofounder - Gage Ventures

Startup co-founded with 4 other members mentored at Happy Valley LaunchBox program

- Founded a startup focused on EdTech solutions such as a behaviour tracking tool for ADHD
- Led the technical side: planned out software architecture, designed wireframes, and led MVP development
- Received \$15,000 in funding from the Summer Founders program (top 6 teams out of 46)

University Park, PA

Feb 2020 - Present

### Team Tech. Lead - Nittany AI Challenge (The Pennsylvania State University)

Annual competition for developing products utilizing AI to solve global issues

- Entered 2 projects into the competition, both won first phase (ADHD Screening Game and Team Builder app)
- Developed prototype of ADHD Screening Game
- Top 20 out of 67 teams, won \$1000 in rewards

University Park, PA

Jan 2020 - Present

### Undergraduate Research Intern (The Pennsylvania State University)

Penn State's College of Information Sciences and Technology

- Aided research in the field of **Human-Computer Interaction**
- Prototyped 2 graphical user-interfaces to be proposed as part of research project
- Conducted 6 user experience/usability studies for the "Third-Eye" project, aiming to develop/modify the way visually impaired/blind individuals navigate and perform their daily activities

University Park, PA

May 2019 - May 2020

### Crew Leader (Penn State Pollock Dining Commons)

Part-time catering services for Penn State students and faculty members

- Led and supported teams of approx. 10 coworkers to function efficiently in fast-paced work environments
- Trained and mentored new student-employees on procedures to meet quality standards of service
- Coordinated with team to effectively serve 1900 customers per meal service

University Park, PA

Oct 2018 - Present

## Projects

### Rent-a-Skateboard

- Full-stack development of a skateboard sharing service. Built RESTful API using Express.js

Apr 2020 - May 2020

### Munchies - Personal Recipe App - (Team work)

- Developed recipe web app with HTML, JavaScript, CSS, and APIs to retrieve ingredient data

Mar 2020 - Apr 2020

### Search & Rescue Navigation App - (Team work)

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

Sept 2019 - Dec 2019

### Carnival Video Game

- Constructed a game in Java utilizing concepts like timed mechanics, persistent data storage, etc.

Sept 2018 - Dec 2018

## Volunteer Experience

### Pimlico Elementary/Middle School, Volunteer Assistant Teacher

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

Baltimore, MD

Mar 2020

### Event Organization Volunteer

- Ushered fans and helped organize seating areas at Penn State's football games

University Park, PA

Oct 2018 - Mar 2020

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

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

Kathmandu, Nepal

Jun 2015 - Jul 2015

### Self-Help Group for Cerebral Palsy Nepal (SGCP)

- Assisted senior members of the organization teach children diagnosed with cerebral paralysis
- Helped develop their motor skills, alphabets, and basic math

Lalitpur, Nepal

Jun 2015 - Jul 2015