# Aboudi Rai

aboudirai.com

## Contact

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## Education

The Pennsylvania State University | University Park, PA — Graduation: Dec 2021
Bachelor of Science in Computer Science — GPA: 3.810

## Skills

**Fluent in:** Python ● Java ● C# ● C++ ● HTML/CSS/JS
**Proficient in:** AWS ● Git ● Django ● Alexa Skills Dev ● Blender
**Learning:** iOS Dev ● OpenCV ● WebGL ● React

## Experience

**Software Developer | Penn State Unmanned Aerial Systems (Sept 2019 - Present)**
- Utilized Django for ground server in order to gather image data and classify up to 20 targets
- Handled manual target selection UI with HTML, CSS, & Vanilla JS
- Aided in target classification model development, using PyTorch
- Collaborated on server with about 5 team members, GitHub used for version control

**Social Media Editor & Videographer | OnwardState.com (Sept 2019 - Present)**
- Created videos, graphics, & apps for Onward State website and social media
- Produced 15 videos using Adobe Premiere, After Effects, and Photoshop
- Built first interactive JS app for the website: Football Playoff Prediction Simulator

**Software Engineering Intern | SRS Health | Montvale, NJ (July 2016 - August 2016)**
- Developed interactive dashboard to dynamically represent engineering team statistics
- Implemented AJAX to retrieve staff performance data asynchronously from API endpoint
- Achieved a comprehensive UI using HTML, CSS, Vanilla JS, and jQuery

## Projects

**Amazon Alexa Skill | Letter Linker (Sept 2019 - Nov 2019)**
- Reformatted a spoken road trip game into an voice powered Alexa Skill
- Programmed the skill using the Alexa Skills Kit SDK for Python
- Implemented In-Skill purchasing feature that provides player with extra lives
- Deployed the skill using an AWS Lambda function & DynamoDB for persistent storage
- Submitted to Devpost's Alexa Skills Challenge: In-Skill Purchasing

**Jewlery Customization App | Eli Jewels | Ramsey, NJ (Sept 2018 - April 2019)**
- Co-developed an app for Eli Jewels to help customers customize a jewelry piece
- Met with client for monthly check-ins to discuss the product design
- Designed app and user interface in Unity3D; built for web using WebGL
- Manipulated 3D jewelry models provided by client, with MeshLab

**UnlockME | PennAppsXV (January 2017)**
- Engineered prototype for device that unlocks an analog Master Lock with a digital keypad
- 3D printed a part to link the lock dial and stepper motor
- Controlled stepper motor with an Arduino Uno, driver, and digital keypad
- Presented project independently at University of Pennsylvania after 48 hour hacakathon