# Aboudi Rai

aboudirai.com

## Contact

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Greater NYC

## Education

The Pennsylvania State University | University Park, PA — Graduation: **May 2022**
Bachelor of Science in Computer Science — GPA: **3.730**

## Skills

Fluent in: Python • Java • Swift • HTML/CSS/JS
Proficient in: iOS Dev • AWS • Git • Django • Adobe CC
Learning: p5.js • socket.io • OpenCV • Blender

## Experience

**iOS App | EasyA | TryEasyA.com | @TryEasyA | 1,100+ installs** — **[Jun - Present]**
- Co-founded an app under Tryber Inc. to provide free education resources for students worldwide
- Implemented Spaced Repetition with short, on-the-go review sessions based on course curriculum
- Designed and developed the iOS App using Alamofire and iOSMath libraries
- Developed a REST API with Django, deployed to AWS EC2, S3 buckets for media storage

**Data Scientist | NittanyAI Alliance | Lockheed Martin** — **[Aug 2020 - Jan 2021]**
- Invited to intern as a data scientist for a 'stranded hiker' rescue project sponsored by Lockheed Martin
- Used BlenderGIS to extract open source map data to use for training ML models
- Adopted Microsoft Airsim as the simulation platform for replicating the rescue

**Software Engineering Intern | ABC Financial Services** — **[Jun - Aug 2020]**
- Trained ML model to handle gym member freeze requests during COVID-19 Pandemic
- Processed data using NLP along with NLTK, numpy, pandas, scikit-learn
- Incorporated a Python API to allow integration of model into automated processes

**Software Developer | Penn State Unmanned Aerial Systems** — **[Sep 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
- Collaborated on server with 5 team members; used GitHub for version control

## Projects

**Amazon Alexa Skill | Letter Linker | A Word Game** — **[Sep - Dec 2019]**
- Programmed the skill using the Python Alexa Skills Kit SDK
- Deployed the skill using an AWS Lambda function & DynamoDB for persistent storage
- Implemented In-Skill Purchasing to monetize the app

**Jewelry Customization App | Eli Jewels | Ramsey, NJ** — **[Sep 2018 - Apr 2019]**
- Co-developed an app for Eli Jewels to help customers virtually customize jewelry
- Designed app and user interface in Unity3D; built for web using WebGL
- Used MeshLab to manipulate 3D jewelry models provided by client