Aboudi Rai

aboudirai.com

Contact

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Education

The Pennsylvania State University | University Park, PA
Bachelor of Science in Computer Science

Graduation: Dec 2021
GPA: 3.850

Skills

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

Experience

iOS App | EasyA | TryEasyA.com | @TryEasyA   **[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 - Present]**
- Invited to intern as a data scientist for a rescue project sponsored by Lockheed Martin
- Used Microsoft Airsim and generated LIDAR data for environment simluation
- Purposed ML models to locate stranded victim, and provide a safe path for 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 Alexa Skills Kit SDK for Python
- 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