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Education

Princeton University
B.S.E (Bachelor of Science in Engineering) Computer Science
Certificate in Statistics and Machine Learning

Princeton, NJ
Class of 2023

Current Leadership Roles

President of Princeton Charter Club Dec 2021–Present

- Responsible for the day-to-day undergraduate operations of the Club for its over 170 members and overseeing the club's six-figure undergraduate budget.
- Runs regular meetings with Princeton Charter Club's Board of Governors and undergraduate officers.
- Works closely with the club staff, managers, and treasurer to plan and execute events for our members.
- Elected by Princeton Charter Club members through a process of speeches and debates.

Captain of Princeton University's Division I Men's Soccer Team Nov 2021–Present

- Played the most minutes during the 2021 season, helping to lead Princeton to their second 7-0 undefeated Ivy League championship in school history.
- Earned the following awards: Academic All-Region, First Team All-Ivy, The Doctor William Trevor Trophy.
- Elected by coaches and teammates as captain and leader of the team.

Experience

Moovila **Charleston, SC**
Software Engineering Consultant May 2022–Aug 2022

- Created and maintained a database to track the historical progress of every project and task in production, used to provide statistical proof to some of Moovila's core features and wrote a white paper describing these findings to be published in summer 2023.
- Jumpstarted Moovila's prediction technology by creating ML pipelines in AWS Sagemaker which will be used to make predictions on task owner performance and task completion rates in the future.

Solar Cookers International **Sacramento, CA**
Data Engineer Aug 2021–Nov 2021

- Cut down the time needed to collect tens of thousands of data points and update a master database from several weeks to approximately 15 minutes with a large system of web scrapers.
- This data is used to provide the most up to date and accurate information about solar cookers, their benefits, and the need for them while presenting to foreign countries.

Puerto Rico Science, Technology, and Research Trust **Sacramento, CA**
Software Engineer Jun 2021–Aug 2021

- Independently researched and developed the API to collect and compute the information needed for a renewable energy dashboard to support Puerto Rico's Energy Public Policy Act which requires the complete transition to renewable energy sources.
- Designed and created prototypes for the publication and accessible display of this information to the people of Puerto Rico in order to track the progress towards renewable energy and keep the government accountable.

Significant Projects

Solar Panel Detection and Size Approximation From Satellite Images Sep 2021–Jan 2022

- Developed an image classifier using a convolutional neural net to detect solar panels in satellite images.
- Designed to improve the data collection for the PRSTRT's renewable energy dashboard's API.
- Wrote up findings in a technical paper found here: https://www.lucasgen.com/assets/pdfs/independent_work.pdf.

Princeton Meal Exchange Website Mar 2022–Mar 2022

- Used daily by hundreds of Princeton sophomores to sign up for, drop, and exchange meals at their eating club.
- Built in the span of four days to replace a website formerly maintained by Princeton University.