

Luis Eldrick Park

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EDUCATION

Swarthmore College

Swarthmore, PA

Bachelor of Arts in Computer Science and Mathematics/Statistics; GPA: 3.72/4.0 Expected Graduation: May 2025

- **Relevant Coursework:** Machine Learning, Data Structures and Algorithms, Intro to Computer Systems, Discrete Math, Severable-Variable Calculus, Single-Variable Calculus II, Linear Algebra
- **Extracurricular Activities:** Swarthmore College Computer Society, Badminton Club, Poker Club

PROFESSIONAL EXPERIENCE

Software Developer Intern

June 2023- August 2023

BeeLine Reader

Remote

- Utilized Python Flask and React to develop a full-stack website that enables users to access a diverse selection of over 5000 educational prompts for content generation using the OpenAPI
- Developed a token optimization algorithm that dynamically calculates the required tokens for the OpenAI API calls which led to a 26% reduction in token requests
- Deploying the website in 3 school districts in the coming spring, providing the students a valuable and innovative learning tool

IT Security Intern

June 2023 – July 2023

Plurilock

Remote

- Constructed an efficient SharePoint site to streamline the off-boarding process for departing team members
- Optimized the site's functionality by integrating a Power Automate cloud flow that allows automatic capture and storage of critical data for all leavers of the company

Web Developer

December 2023 – January 2024

Swarthmore Alumni

Swarthmore, PA

- Implemented a visually engaging portfolio website showcasing over 100 pieces of artwork for a Swarthmore alumni within a user friendly Wordpress framework

PROJECTS

Airpool | *Next.js, Docker, TypeScript, React, NextAuth, MySQL, Prisma*

November 2023– Present

- Spearheading the development of a dynamic platform aimed for Swarthmore students to coordinate and share uber rides, facilitating cost-sharing among peers
- Configured a production and development MariaDB database within the Docker container to efficiently store and manage user profiles, ride details, ride history, and blacklisted users with Prisma as our ORM
- Leveraging NextAuth to develop a streamlined login system for the platform

Survival Analysis for Heart Patients | *Python3, NumPy, Pandas, Jupyter-Lab*

December 2023 – January 2024

- Handmade a fully functioning Artificial Neural Network that utilizes core deep learning principles such as layering, activation functions, regularization methods, backpropagation, and optimizers
- Applied the ANN framework to the Heart Failure Clinical Records Dataset to predict if the patient will be deceased before the next check up period
- Achieved an average accuracy score of 79.6 percent after implementing both a Grid Search and a K-Fold Cross Validation to properly find optimal hyper-parameters and a robust scoring metric

Leetcode Enhancer | *Javascript, HTML, CSS, OpenAI API*

July 2023 – August 2023

- Engineered a Chrome extension for automated analysis of space and time complexity for input code and extracted prompts from the LeetCode problem pages
- Enhanced the extension by injecting recommended YouTube video solutions into the solutions tab

Poker Probabilities | *Python3, Pygame*

October 2023– November 2023

- Designed and coded a Python-based poker software that accurately calculates the statistical probabilities of winning in a poker hand, complemented with an interactive GUI for an optimal user experience
- Takes account of all 2,598,960 possible card combinations that can be dealt in a hand

TECHNICAL SKILLS

Languages: Python, C, C++, Javascript, Typescript, HTML, CSS

Other Technologies: React, Node.js, Next.js, Python Flask, Prisma, Tableau, Matplotlib, Scikit-Learn, NumPy