Christo Polydorou

polydorouc@carleton.edu | (612) 354-9987 | christopolydorou.com | linkedin | github

EDUCATION

Carleton College   **Northfield, MN**

Bachelor of Arts in Computer Science / Minor in Theater Arts   *Class of 2024*

- Cumulative GPA: 3.67/4.0.
- Relevant Coursework: Data Structures, Algorithms, Software Design, Advanced Software Design, Computer Systems, Programming Languages, Parallel and Distributed Computing, Cryptography.
- Activities: D3 Men's Basketball, Hack4Impact, Student-Athlete Advisory Club, Athlete Investment Club.
- TA for CS.111: Intro to Computer Science. Held weekly review sessions and assisted the professor in class.
- Grader for CS.252: Algorithms. Evaluated and assessed students' understanding of key algorithms.

University of Cambridge   **Cambridge, England**

History of Computing in England   *June 2022 - August 2022*

- Elected to participate in a Computer Science study abroad program taught by Carleton and Cambridge professors.
- Courses: Cryptography, History of Computing, History of WWII.

EXPERIENCE

Software Engineer Intern - *Pearson Inc.*   *May 2023 - September 2023*

- Reduced average exam scheduling time by 30% by developing API-integrated chatbot using LangChain + OpenAI LLMs and Python (Pandas, Flask); presented new approach to C-Suite and Exec Team.
- Optimized existing web scraping tool on over 4000 websites using BeautifulSoup, NLTK, and asynchronous functions to reduce scraping time by 40% per website.
- Engineered and executed a comprehensive sentiment analysis and feedback querying project utilizing OpenAI, LangChain, and Pandas on a dataset of over 20,000 user feedback comments.

Backend Web Developer - *Hack4Impact*   *September 2023 - Present*

- Collaborated with peers from Carleton and local non-profit organizations to develop mobile and web applications.
- Created AWS Lambda functions to connect mobile apps to SQL databases for non-profit Isuroon, which is dedicated to supporting the health and well-being of Somali women in Minneapolis.

Game Developer Extern - *SayKid*   *December 2023*

- Developed a new process to connect Alexa Skills to Voiceflow assistants using AWS Lambda and Dialog API.

Software Development Intern - *Stealth Startup*   *January 2023 - March 2023*

- Developed and optimized a suite of CRUD screens using TypeScript React and MaterialUI.
- Implemented robust user interface components, data fetching, form validations, and API integration.
- Collaborated with a cross-functional Agile team to deliver high quality software on time and within budget.

SKILLS

- Programming Languages: Python, Java, C, JavaScript/TypeScript, Swift/SwiftUI, SQL.
- Tools, Databases, OS: Linux, Azure, AWS, MongoDB, PostgreSQL, Git, Docker, Jupyter Notebook.
- Web Technologies: React.js, HTML/CSS, Flask, MaterialUI, Node.js.

PROJECTS

Algorithm Arena

- Built frontend/backend for a competitive programming web app using React, MaterialUI, AWS, and MongoDB. Has over 20 leetcode style questions that are evaluated in real time using 100+ test cases. (github**)**

Scheme Interpreter

- Engineered a C-based scheme interpreter, optimizing tokenization, parsing, and interpretation processes. (github**)**

Disaster Tracker

- Architected a data-rich website using HTML, CSS, JavaScript, Flask, and PostgreSQL, empowering users to analyze and visualize trends in over 60,000 natural disasters in the U.S since 1954. (github)

Thread Pool

- Implemented a thread pool in C to manage work items, facilitate task execution, handle synchronization and communication among threads. (github)