

EDUCATION

- **Goldsmiths, University of London**

September 2021 - Present

Bachelors in Computer Science

- **Selected Courses**

Data structures and algorithms, Databases and networking, Operating systems, Machine learning, Data mining

EXPERIENCE

- **Samsara**

June 2024 - Present

Software Engineering Intern

- Contributed to milestones, risk assessment, and rollout strategies for successful, minimal-impact implementation.
- Developed a new SQL table for storing global overrides based on customer-provided speed limit corrections.
- Implemented logic to validate, process, and store high-confidence speed limit overrides from various customers.
- Worked with teams to align and approve the project approach, validating fleet safety and data accuracy impacts.

- **SyntHeim**

July - September 2023

Software Engineering Intern

- Implemented the backend of admin panel and real-time notification system for the social media app using Python.
- Added secure user authentication and role-based access control, to enhance the overall system security.
- Developed content moderation tool and a reporting system to handle problematic user-generated content.
- Utilized websockets to provide critical event alerts for user reports, enabling timely responses by administrators.

- **GitHub**

October 2023

Hacktoberfest'23

- Contributed solutions to complex coding challenges, showcasing proficiency in data structures and algorithms.
- Collaborated with the open-source community to provide high-quality python solutions to algorithmic problems.
- Gained experience in version control, open source and collaborative development using GitHub.

PROJECTS

- **Predictor**

GitHub

Machine Learning Application

- Developed a ML application to predict oral temperatures and classify fever using infrared thermography data.
- Trained various models including Linear Regression, Decision Tree, Random Forests and Neural Networks.
- Evaluated models using metrics such as RMSE for regression, and accuracy, precision, recall for classification.
- Achieved 92% accuracy in predicting oral temperatures and 96% precision in identifying fever cases.

- **Strategist**

GitHub

AI-Powered Tetris Gameplay

- Created an AI capable of playing Tetris by assessing move effectiveness using a combination of heuristic metrics.
- Developed an evolutionary algorithm to fine-tune the weights linked to different factors affecting move selection.
- Performed extensive testing to evaluate the AI's performance in diverse game scenarios to refine decision-making.

- **CoinInsight**

GitHub

Crypto Exchange Data Analyzer

- Created a CLI program in C++ for analyzing exchange data stored as CSV file for cryptocurrency investors.
- Developed advanced command parsing, including error handling and data validation, to ensure accurate analysis.
- Utilized object-oriented principles for abstraction, encapsulation, reusability, scalability, and organization.

ACHIEVEMENTS

- **FooBar Challenge - Google**, Qualified for solving multi-stage algorithmic problems with hidden test cases.
- **Competitive Programming - LeetCode**, Achieved a global rank of 1232 among 54528 participants.
- **Animation Contest**, Won university-award for best animated adaptation of *Thirsty Crow* using p5.js library.
- **A Levels Equivalent**, Achieved A* grade in Computer Science while studying in Shri Ram Public School.

TECHNICAL SKILLS

- **Programming Languages:** C++, Python, Go, C#
 - **Web Technologies and Frameworks:** HTML, CSS, JavaScript, React, Express, SQL
 - **Libraries and Toolkits:** Scikit-learn, Pandas, NumPy, Git
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