Cameron Toy

Albertson, New York

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EDUCATION

University at Buffalo, The State University of New York   Graduated May 2024
Bachelor of Science in Computer Science   *Buffalo, New York*
Coursework *: Software Engineering, Artificial Intelligence, Web Applications, Systems Programming, Data Intensive Computing, Databases, Linear Algebra, Probability, Parallel and Distributed Processing, Data Structures and Algorithms*

EXPERIENCE

Develop for Good   May 2024 – Present
Software Engineer - Linens N Love   *Remote*
- Implemented an email authentication service using **Gmail API** with **Node.js and Express**, enabling passwordless login and securely authenticating over **500 users.**
- Integrated **Google Maps API with GCP** to connect users with the nearest chapter, facilitating proximity-based deliveries for volunteers and enhancing service efficiency.
- Developed a dynamic dashboard using **React and MongoDB** for 20 **Hotels and 3 Chapters** to manage donations and deliveries, streamlining coordination and improving overall operational effectiveness.

University at Buffalo   Aug. 2023 – May 2024
Research Assistant - Vizier Data Workbook   *Buffalo, New York*
- Optimized user workflow in data filtration and selection by innovating a data profiler with **Apache Spark and Scala**, achieving a **20%** reduction in processing time.
- Improved data visualization by adding and fixing ETL modules using **Scala and Vega**, reducing runtime performance and achieving a **25%** reduction in rendering time.
- Revamped UI by leveraging **Rx, ScalaJS, and SASS**, resulting in dynamic interactions, reproducibility of module cells, and enhancing workflow efficiency.

Stony Brook Administrative Services, LLC   Jan. 2023 – Aug. 2023
Software Engineer Intern - Internal Development Team   *Commack, New York*
- Constructed an internal dashboard for over 100,000 items in inventory using **React, Node, Express, and MySQL**, leading to a **25%** reduction in inventory discrepancies.
- Built a microservice to automate and streamline the creation and storage of invoice purchase vouchers by using **Python, Fast API, and MySQL**, deployed to **30** practice admins, improving administrative workflow.
- Reduced over **300,000** duplicate records in Cerner EMR by applying **Pandas, NumPy, and Tableau** to access and merge over **70%** of patient records, enhancing data accuracy.

PROJECTS

Board | *React, Express, Go, PostgreSQL, Docker*   Feb. 2024 – Present
- Enhanced community collaboration and engagement by devising modular features using **Go and PostgreSQL**, enabling flexible customization of the community pages.
- Facilitated instant communication by implementing a real-time chat feature using **WebSockets**, allowing users to exchange messages seamlessly within the global dashboard.

Hive | *Flutter, Firebase, Dart*   Sept. 2023 – Feb. 2024
- Crafted a chat interface in **Flutter**, integrating **Firebase** for real-time individual and group chat functionalities, including automated group chat creation for clubs.
- Enhanced user interaction in Flutter using **Dart**; implemented editable group names, notification panel, and username dropdown for chat initiation, linked with Firebase for data consistency.

Room8 | *PHP, MySQL*   Jan. 2023 – May 2023
- Instituted **REST APIs** for key functionalities such as equal and unequal bill division, task assignment, enhancing versatility and user-friendliness while ensuring a seamless data flow.
- Implemented a search bar and friend request feature operating **PHP** and **SQL** to increase connectivity and user experience.

TECHNICAL SKILLS

Languages: Scala, Go, Java, Python, C/C++, SQL (Postgres, MySql), JavaScript, HTML/CSS
Frameworks: React, ReactiveX(RxScala), FastAPI, Flask, Gin, Angular
Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Figma
Libraries: pandas, NumPy, Matplotlib, Vega, Apache Spark, Apache MapReduce, Cuda