Matthew Morales

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EDUCATION

B.S. in Computer Science   Graduation Date: Dec 2022
University of California, Davis

    Relevant Coursework: Object-Oriented Programming, Computer Assembly, Computer Architecture, Data Structures, Design and Analysis of Algorithms, Computer Networks (TCP), Web Programming, Machine Learning, DevOps, Operating Systems

SKILLS

- **Languages**: Python, C++, Scala, HTML, Javascript, CSS, Java, Haskell, Prolog
- **Frameworks/Libraries:** React, Node.js/Express.js, Typescript
- **Technologies**: Google Cloud, Git, Linux/Unix,Vim, MySQL, BigQuery, Hadoop, API Design, Jira

EXPERIENCE

Competitive Coder AI Training   Jun 2023 - Present
Scale AI

- Contributed to generative artificial intelligence projects, improving code and providing training data.
- Developed algorithmically efficient solutions with comprehensive test cases to ensure code functionality.
- Crafted problem summaries and explanations, highlighting problem-solving approaches.

Software Engineering Intern   Jun 2022-Sept 2022
Twitter San Francisco, CA

- Collaborated with Twitter's BirdEye team in their unified effort to provide Twitter developers with a centralized and customizable view of critical reliability metrics for essential Twitter services during deployment
- Designed and implemented **Scala** (Scalding) jobs to migrate important data from Twitter's on-premise warehouse to **Hadoop** compiled with **Bazel**. Established a bidirectional data pipeline from **Hadoop** to **BigQuery** and **Google Cloud**, enabling developers to access and analyze the data in a serverless, highly scalable, and cost-effective manner.
- Ensured data security and compliance by verifying the encryption and protection of all personal data, adhering to the S2S compliance process.
- Created and presented a comprehensive **Looker** dashboard utilizing the migrated data from **BigQuery**. Incorporated custom calculations to showcase the scalability of the dashboard for in-depth analysis. Empowered developers at Twitter to customize the dashboard according to specific business needs.

PROJECTS

Fitness Log

- Developed a web application using **HTML**, **JavaScript**, and **CSS** to help users track their workout history and set reminders for upcoming activities.
- Set up **MySQL** databases to store individualized user data effectively.
- Integrated **Node.js** and **Express** in the backend to facilitate reminders for future workouts through **HTTP/AJAX** requests, ensuring seamless communication with the database.

Slice the Pie

- Engineered an engaging web application utilizing **React** and **D3**, showcasing a dynamic comparison between actual expenditures of the UC Davis administration and user-input estimates through interactive pie charts
- Utilized **MySQL** to organize and manage user input and expenditure data, ensuring a robust and structured foundation for generating dynamic pie charts and providing a scalable and responsive user experience.