Bryant Jimenez

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EDUCATION

Stanford University   Stanford, CA
Bachelor of Science in Computer Science   *Mar 2024*

Relevant Coursework:

Programming Methodologies and Abstractions, Computer and Network Security, Artificial Intelligence, Design and Analysis of Algorithms, Computer Organization and Systems, Principles of Computer Systems, Compilers, Web Applications, Databases and Data Systems, Building for Digital Health (Stanford School of Medicine)

TECHNICAL SKILLS

Languages/Frameworks/Dev Tools: Python, Golang, Next.js, TypeScript, TailwindCSS, Vue.js, C/C++, JavaScript, HTML/CSS, ReactJS, React Native, Swift, Linux, Unix, SQL, Node.js, Google Cloud Platform, Jira, Git

EXPERIENCE

Software Engineer   Aug 2024 – Present
Todyl   *Denver, CO*

- Implemented efficient data translation and serialization for webfiltering policies utilizing Google Protocol Buffers, increasing communication **speed and efficiency between internal APIs by 300%.**
- Transitioning legacy codebase and backend REST APIs to modern frameworks utilizing Golang, Vue.js, and JavaScript, improving user experience and **reducing customer platform latency by 15%.**
- Increased test coverage across the entire platform by utilizing Testify (Go), Jest (JS), and Vue Test Utils, achieving **20% increase in code coverage** and ensuring more robust, comprehensive functionality.

Software Engineer Research Intern   Jan 2024 – Apr 2024
Stanford Byers Center for Biodesign   *Stanford, CA*

- Developed **push notifications for LLM iOS application** to promote physical behavior change, utilizing OpenAI API and Firebase Cloud Messaging, allowing users to set fixed and context-dependent notifications related to their health data.
- Engineered **listener-based, server-side scheduling module** in Python using APScheduler package for notification schedules based on changes to user database.
- Implemented unit testing for Python backend server by employing Pytest, resulting in a significant **reduction in post-deployment errors by 65%.**
- Architected bulk data handling for **open-source** SpeziHealthKit module using **Apple HealthKit API**, implementing batch data retrieval and task parallelization for efficient processing, eliminating **lost health data** during upload **by 90%.** for **30+ users.**

PROJECTS

Freelance Website for Small Business | *NextJS, TailwindCSS, PostgreSQL*   May 2024 – Jul 2024

- Developed modern full-stack website for small fencing business utilizing NextJS, TailwindCSS, and PostgreSQL, achieving a **200%** increase in monthly revenue and project agreements for the business.

Photo Sharing Web App | *JavaScript, HTML, CSS, ReactJS, MongoDB*   Feb 2023 – Apr 2023

- Developed a PhotoSharing website where users can log in, register, upload photos, @mention other users, and view other user's details and photos.
- Orchestrated user authentication, registration, and login functionalities, resulting in a tight-knit user base of **11 Daily Active Users** over a 1.5-month span.

Compiler for COOL Language | *C/C++/FLEX/Bison/MIPS*   Apr 2022 – June 2022

- Implemented lexical analyzer + parser to match and perform specified actions for user-defined regular expressions.
- Engineered semantic analyzer that manages naming and scoping, type checking for **23+ types, 20+ symbols, classes, methods, and objects**, and full error message generation for erroneous programs.
- Wrote code generator that produces MIPS assembly for any COOL program.

ACTIVITIES

ColorStack   Feb 2020 – Present
Member