

ERIC HERNANDEZ

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SKILLS

Programming Languages: C, C++, Python, TypeScript, JavaScript, Fortran, SQL, HTML/CSS

Web Technologies: React.js, Node.js, Express.js, Next.js, Vue.js, PHP Laravel, REST APIs, GraphQL

Tools and Databases: PostgreSQL, Comdb2, MySQL, Redis, Docker, Git, Unix CL, CMake

EXPERIENCE

Bloomberg LP | Software Engineer Mar 2024 - Current

- Developing and maintaining backend services, storage layers, and pipelines for fixed income security data on the Bloomberg Terminal
- Enhanced multiple API requests on a company data microservice to read from a new database and Redis cache, reducing the number of caches by 1 and expanding the company data available to clients by 10+ fields
- Built a listener to a stream of database change events that publishes fixed income security updates for internal clients to refresh their security data
- Leading effort to takeover and improve floating rate benchmarks data by backfilling the database tables, building a microservice and Redis caching layer, and migrating clients that directly access the database onto the service

UC Santa Cruz ITS Software Engineering | Software Developer Jan 2023 - Sep 2023

- Migrated a poster printing web app service used by 16,000+ students and faculty to a new web stack
- Enhanced payment integration error handling and presentation, streamlining the payment process for users
- Improved frontend form validation and data formatting, ensuring accurate and complete data for the backend
- Kept product owner/stakeholders updated on project status and collaborated to prioritize MVP features for production
- Collaborated with service management team to maintain and update documentation for web apps in our portfolio

NVIDIA Corporation | Software Engineer Intern Jun 2021 - Aug 2021

- Collaborated to design and implement a Code Review Framework that detects security and styling defects in a Perforce code review changelist, improving code quality for an org of 20+ engineers
- Implemented the main runner, which loads configurations for analysis tools, retrieves the files in a Perforce changelist, and runs the analysis on the files
- Leveraged the Perforce API to automatically post feedback from the framework to the Perforce code review
- Assisted in testing and debugging a security bug in the GPU resource manager for Linux platforms

PROJECTS

Baskin Marketplace | TypeScript, Next.js, Express.js, GraphQL, PostgreSQL

- Collaborated with five developers to design, develop, containerize, and deploy a full-stack marketplace web app for our senior capstone project
- Managed version control using GitHub and provided continuous integration (CI) with GitHub Actions
- Built a backend messaging microservice using Express.js, GraphQL, and PostgreSQL
- Developed frontend messaging components with React.js and JoyUI, integrated with the messaging microservice
- Performed automated unit testing on components and microservices to ensure full functionality and code coverage

Multi-threaded HTTP Server | C, Linux

- Designed a robust multi-threaded HTTP server in C, capable of serving atomic GET, PUT, and APPEND requests
- Implemented asynchronous IO using epoll for robust event monitoring on client connections, similar to nginx
- Conducted stress testing and fixed bottlenecks, resulting in a system run time improvement of more than 2x

EDUCATION

University of California Santa Cruz | B.S. Computer Science Sep 2019 - Jun 2023

GPA: 3.89

Notable Courses: Computer Systems Design, Computer Architecture, Compiler Design, Full Stack Web Development

ORGANIZATIONS

Society of Hispanic Professional Engineers, Professional Chapter | Member

Bloomberg Latinx in Tech | Member