Chris Cheng
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SUMMARY

Results-driven software engineer with specialty in web-development and data-driven projects. Experienced in building scalable full-stack applications with React, Next.js, and Express.js, focusing on performance optimization and design. Proven track record in automating processes and managing complex data operations. Volunteer with SF Civic Tech, contributing to open-source projects to improve society. Committed to continuous learning and growth.

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Java, R, Python
Cloud Deployment and Technologies: DevOps, Git, feature branch workflow, AWS (EC2)
Database Concepts and Technologies: SQL, NoSQL, MongoDB, Entity Relationship Diagrams, Database scaling, Mongoose
Server-Side Concepts and Technologies: Node.js, Express.js, React Router, MVC, Stress Testing & Scalability
Client-Side Concepts and Technologies: HTML5/CSS3, DOM & DOM API, Event Listeners, React.js, AJAX / Fetch, Component-Based Architecture
Fundamentals of Computer Science: Data Structures, Algorithms, Object-oriented design, ORM/ODMs

RELEVANT PROJECTS

Compass | SF Civic Tech | TypeScript, Next.js, tRPC, Postgresql, MUI | GitHub: Link   Jun '24

Compass is an open-source project spearheaded by SF Civic Tech to help educators create and manage Individualized Education Programs (IEPs) for better student outcomes.
- Translated conceptual Figma designs from a specialized team of dedicated designers to functional front-end user interfaces.
- Eliminate runtime errors by 100% and ensure type safety through implementing tRPC's inferProcedureOutput functionality.
- Integrate front end CRUD operations involving complex joins by implementing by utilizing tRPC procedures.

Anonify | React, Tailwind, Supabase, Postgresql, Tanstack Query | GitHub: Link   Apr '24

Anonify is a passion project which simplifies collaborative playlist creation. Users can generate shareable links, add songs, and vote on favorites and watch as the page live updates.
- Achieved a 30% reduction in Tailwind CSS code and improved visual aesthetics by transitioning to the Daisy UI Framework.
- Leveraged Supabase Realtime & Framer Motion to create both animated and live page updates for **playlist synchronization among multiple users**
- Upgraded data handling through the adoption of **TanStack Query**, simplifying asynchronous state management in data-fetching & mutation handling.

ManorMatch | React, React Router, Axios, Tailwind, MongoDB, Figma | Guthub: Link   Apr '24

ManorMatch is a full-stack application designed to seamlessly connect discerning clients with an array of exclusive, bespoke, high-end services.
- Directed the creation of the Figma wireframe for the website, ensuring visually engaging experience for users while working collaboratively
- Obtained a **15% reduction in merge conflicts** through implementing a structured Git workflow with branching & pull request reviews
- Mitigated merge conflicts through code analysis & fostering **transparent communication**, resulting in seamless feature integration

Atelier E-Commerce | React, Styled Components, Jest, MongoDB, Express, Python Dask Dataframe | GitHub: FE, BE   Mar '24

Atelier is a full-stack e-commerce platform consisting of a distinct front-end and a service-based back-end component.
- Reduced 20M CSV lines to 4M using Python's Dask DataFrame, overcoming memory constraints and enabling efficient ETL from **SQL** to **NoSQL**.
- Increased performance by preloading data, achieving a **100 ms blocking time** and a 0.3 FCP
- Upgraded performance **up to 75%** through database indexing and caching, and added further enhancements to minimize server-side processing
- Attained a **34-80ms response time** under a load of 1200 RPS by implementing an NIGINX load balancer on separate AWS EC2 servers to horizontally scale application

PROFESSIONAL EXPERIENCE

American Politics Company - Freelance Software Engineer   Jun '24 – Jun '24
- Collaborated in a hybrid environment with a team of contract software engineers, enhancing team communication and productivity
- Assisted with the front-end design of a voter guide social media platform using Figma
- Implemented responsive UI elements with Shadcn to ensure a seamless login experience across various devices

PricewaterhouseCoopers - Financial Auditor   Oct '22 – Jan '24
Focus on Pre-IPO Biotechnology / Health Companies - San Francisco, CA
- Enhanced team productivity and days of work by **automating repetitive tasks** and cleansed revenue data using Alteryx.
- Shortened manual workload by 3+ workdays leveraging UI Path and Microsoft PowerAutomate to scrape data from the Pitchbook website.
- Led weekly team sync and remote coaching sessions on substantive audit procedures using MS Teams to **enhance efficiency** among a global team.

PricewaterhouseCoopers - Audit Intern   Jun '21 – Aug '21

EDUCATION

Hack Reactor | Advanced Software Engineering Immersive Program
- Training in JavaScript, React, Express, PostgreSQL, MongoDB in an Agile environment, including solo coding, pair programming, and team collaboration

University of California: Santa Barbara | BA: Economics and Accounting | GPA: 3.87   Oct '18 – Jun '22
Relevant Courses: Data Wrangling, Technical Writing, Writing with Code, Advanced Accounting, Economics, Statistics, Calculus, Linear Algebra
- Cleansed large datasets in R programming language using the Tidyverse library under tight deadlines
- Created visual representations of data through the development of histograms, pie charts, and bar charts using the ggplot2 package