JOEY MA
SOFTWARE ENGINEER

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TECHNICAL SKILLS

Languages	Front-end	Back-end	Experienced
JavaScript | TypeScript	React.js	Node.js	GraphQL | Git | GitLab
Java | Python	Vue.js	Express	GitHub | GitHub Actions
Pure Data | MaxMSP	HTML	Redis	Recoil.js | Redux.js
Fullstack	CSS | SASS | SCSS	SQL | Postgres	Bcrypt | Contentful | D3
		NoSQL | MongoDB |	Agile | Scrum | Jira
Next.js		GCP (Firestore)	Kanban | GitHub Projects
Wordpress		AWS (IAM, ECR, ECS, RDS)	TDD with Jest | Docker

EXPERIENCE

Software Engineer (Web) at *Steelgem* - driving positive change through innovative marketing   **May 2023 - Oct 2024**
➢ Migrated web applications from Gatsby.js to Next.js architecture; enhanced developer experience by shortening build time by 80% (from 15 mins to 3 minutes), improved site responsiveness, optimized SEO, exceeding stakeholders' expectations.
➢ Implemented a comprehensive analytics framework using Google Tag Manager (GTM) & Call Tracking Metrics (CTM), enabling tracking of hundreds of key user interactions & optimizing marketing strategies based on actionable insights.
➢ Consolidated resources among designers and developers during redevelopment phases enabling consistent communication flow which expedited final approval processes by reducing revisions needed per phase down to just two iterations.
➢ Spearheaded integration of new coding practices into existing workflows; facilitated training sessions which improved overall code quality metrics by reducing bugs identified in pre-release phases by over 40%.
➢ Modernized process for content updates, addressed bottlenecks of cross-functional teams, enabling writers & marketing specialists ability to preview changes instantly via Contentful; improving content turnaround times for thousands of blog-posts.
➢ Built out a new booking app with comprehensive functionality using Boulevard's API, enhancing client interaction pathways.

Software Engineer at *Hack for LA* - empowering communities with open-source civic tech   **Jul 2022 - May 2023**
➢ Facilitated discussions among essential team members & key stakeholders to design data models for database infrastructure.
➢ Developed a centralized backend database system utilizing Python, Django, and Docker; this initiative streamlined data access processes while maintaining accuracy in user management systems used by five projects.
➢ Documented an automated bot using GitHub Actions for dependency checks in DevOps, resulting in a 50% reduction in manual oversight time and increasing overall team productivity by one hour weekly.
➢ Employed Terragrunt alongside Terraform to optimize configuration management, achieving reduction in code redundancy during the AWS infrastructure automation process; streamlined deployment time by 20%, enhancing productivity.

Software Engineer at *Program Equity* - amplifying social impact & climate change advocacy   **Dec 2023 - Mar 2023**
➢ Strengthened user interactions with enhanced UI elements including mobile-responsive features that allowed customizable donation inputs; directly contributed to a notable rise in daily active users with custom donation amounts.
➢ Setup logging with winston.js (for backend) and vue-logger-plugin (for frontend) to record errors and behaviors for a better debugging experience in future deployments and for faster development resolution when encountering issues.

Software Engineer at *Recoilize* - enhancing developer experience for React.js + Recoil.js applications   **Nov 2021 - Feb 2022**
➢ Iterated on Single Page Application, taking advantage of React's flexible, modular component architecture & diffing algorithm.
➢ Leveraged Redux toolkit to minimize certain aspects of Redux store configurations & repetitive boilerplate codes while opting in for a predictable, centralized application state, with one single source of truth.
➢ Implemented Recoil.js API to take snapshots of Recoil stateful components and aggregated relevant data to send to DevTool for visual representation and time travel features.
➢ Incorporated D3.js to generate svg data visualization and dynamically display graphs of the react components atom family network, and performance metrics graphs and added interactive functional sliders for flexibility in user experience.
➢ Reviewed Chrome's Storage API, persisting reducer to store user session states useful for debugging & page refreshes.

Talks	Publications
Single Sprout Tech Talk: **Build Tools Alternative** / 2022	Featured in **Meet the best friend of Recoil.js — Recoilize** / 2022

Education	Passion & Interests
Codesmith, Software Engineering Immersive / 2022 **UC San Diego**, Interdisciplinary Computing Arts B.A. / 2011	Building cool apps, making the world & the WWW a better place, sustainability, real estate, jogging, karaoke, family time