JOEY MA
SOFTWARE ENGINEER

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TECHNICAL SKILLS

Language-agnostic: JavaScript ES6+, TypeScript, Python, Java; **Multi-paradigm:** Imperative, Procedural, Declarative, Functional Programming, Object-Oriented Programming (OOP); **Full stack:** React (Hooks, Context, Redux, Recoil, Router), Node.js, Express, SQL (PostgreSQL), NoSQL (MongoDB), HTML, CSS/SCSS; **Experienced:** Bcrypt, D3.js, Next.js, Git, GitHub, JIRA, AWS, Docker, Shell (Bash/Zsh); **Flexible:** Test-Driven Development (TDD, Jest, Supertest, React Testing Library), UX-Driven Development (UXDD), Agile (Scrum/Kanban), Full Software Development Life Cycle (FSDLC)

EXPERIENCE

Software Engineer | Hack for LA   **Jul 2022 - Present**
- Documented and maintained a bot (`danielridgebot`) using GitHub Actions to automate dependency checks for DevOps
- Building backend database infrastructure (`peopledepot`) for entire Hack for LA org, using Python, Django, and Docker
- Using Terragrunt as a thin wrapper for Terraform to keep config DRY while working towards AWS infrastructure automation

Software Engineer | Recoilize | Developer Tool for React + Recoil Applications   **Nov 2021 - Feb 2022**
- Developed SPA with component architecture using React to take advantage of its flexibility, modularity and diffing algorithm
- Utilized Redux for a predictable, centralized application state, with store serving as the single source of truth, and leveraged Redux toolkit to minimize certain aspects of Redux store configurations and repetitive boilerplate codes
- Implemented Recoil API to take snapshots of Recoil stateful components and aggregated relevant data to send to DevTool for visual representation and time travel features
- Used 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
- Implemented Chrome's storage API and persisting reducer to store stateful info per user sessions for developer's convenience when refreshing pages during debugging
- Product developed under tech accelerator OS Labs (opensourcelabs.io)

AVP Private Client Banker | JPMorgan Chase   **Jul 2019 - Feb 2020**
Relationship Banker (Small Business Specialist, Manager On Duty)   **Jan 2016 - Jul 2019**
- Tailored financial solutions for clients and collaborated with branch members, investment, mortgage, and business advisors
- Coached relationship bankers and led team members and branch operations in the absence of managers
- Utilized Salesforce CRM for relationship management and customer outreach

OPEN SOURCE

Algoverse | Learning Tool for Algorithms   **Nov 2021 - Feb 2022**
- Designed and configured a SQL database using PostgreSQL to store relational data, user info and algorithms questions
- Implemented password-hashing using bcrypt for secure password encryption and JWTs for session authentication
- Engineered intuitive RESTful API endpoints using Node/Express server to take the advantage of Node.js cross-platform runtime environment - streamlining communication between the front-end and a SQL database
- Built app using webpack for scalability, improved app performance using as minification, uglification, and transpilation, etc

unbEATable | Geolocation-based Restaurant Recommender   **Nov 2021 - Feb 2022**
- Integrated Redux to achieve a centralized state management for application and manage conditional rendering
- Employed test-driven development using Jest with React Testing Library for unit-testing and snapshot testing
- Architected Node.js/Express server to handle HTTP and backend requests, using middleware, controllers, and routers
- Prototyped a NoSQL database for storing unrelated data, fast deployment, ease of horizontal scaling and created organization and security using schemas to enforce data type declarations

Pomodorable | A Customizable Pomodoro Timer   **Nov 2021 - Feb 2022**
- Utilized React for its predictable and unidirectional data flow and React Hooks for an event-driven state management system
- Implemented NoSQL database to provide quick and flexible setup as well as modularity in timer and preset components
- Employed User Experience Driven Development (UXDD) for a scalable and dynamic application with an intuitive user interface

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

Education	Interests
UC San Diego, Interdisciplinary Computing Arts B.A. / 2011 Java, Pure Data, Max/MSP, Codesmith 2022	Building cool web apps, jogging, giving back to community, karaoking, real estate, making my daughter a trust fund babe