

🎓 EDUCATION

- Third year **Math-Computer Science** major at UC San Diego (3.6 GPA, expected graduation: **Dec 2024**)
- Relevant coursework:
 - Data Structures and Algorithms in Java, C, C++, Assembly
 - Software Engineering and Web Development (Agile, HTML/CSS/JS fundamentals)

📁 EXPERIENCE

Lead Developer Intern @Tramona React Next.js tRPC Tailwind Oct 2023 - Present

- Spearheaded the development of tramona.com and co-led a team of 5 other developers, engaging in code review and pair programming and fostering a tightly knit vertical team
- Utilized shadcn/ui to create a custom component library using **Tailwind**, **Radix Primitives**, **React Hook Form**, and other libraries, leading to more a consistent design and faster dev velocity
- Used **tRPC**, **Zod**, and **Drizzle ORM** on the backend to handle input validation and database queries, and to integrate with the frontend via **React Query**, simplifying fullstack development and enabling more reusable components
- Designed the relational data model for **PostgreSQL** and maintained it by performing expand-and-contract migrations
- Integrated with Slack, Twilio, and AWS SES to send emails and texts to users and Slack messages to admins
- Used **Supabase Realtime** and **Zustand** to support in-app messaging between travellers and hosts

✂️ PROJECTS

Minesweeper React Next.js app router Tailwind Prisma ORM Repo Site Sep - Oct 2023

- Used **React** and Typescript with **Immer Reducers** to create a robust and performant Minesweeper game
- Allowed players to switch between difficulties and save their high scores using the **localStorage** API
- Leveraged Next.js Server Actions and **Prisma ORM** to create a global leaderboard for each difficulty

donequick SvelteKit Firebase Tailwind realtime noSQL Repo Site Aug - Sep 2023

- Used Firebase **Firestore** to create a lists app with optimistic updates, reordering, infinite nesting, keyboard shortcuts, and **real time collaboration**
- Used Firebase **Auth** to sync user data to the cloud and let users invite each other to lists by email
- Leveraged Firebase **Security Rules** to support secure list sharing and client-side database queries

MCSR Ranked Stats SvelteKit Tailwind data vis Repo Site Mar - Jun 2023

- Consumed a **REST API** to make interactive **data visualizations** that help competitive Minecraft speedrunners (MCSR) understand and share their statistics
- Wrote several algorithms to parse, transform, and summarize raw match data to allow for more intuitive visualizations
- Serves **3,000+ visitors** and **40,000+ page views** per month

UCSD Courses SvelteKit Python web scraping Scraping repo Site repo Site Jan - Mar 2023

- Scraped **6,888** UC San Diego courses from **82** department pages, as well as **179** major codes & names
- Leveraged **Python/BeautifulSoup** to parse, clean, and **interlink** the courses, and to **generate Svelte markup**
- Designed and created a new course catalog that lets users search for departments, share links to course descriptions, hover over major codes for details, and click any mention of a course to jump to its description

PiggyBank Figma UX design Figma File Prototype Aug - Oct 2023

- Worked with a team to design and prototype a bill-splitting mobile app targeted towards college students
- Executed the entire **design process**, including user research, visual design, prototyping, and user testing
- Leveraged **Figma** components and styles to foster productive workflows and fast iterations

💡 SKILLS

Languages

HTML CSS JavaScript TypeScript SQL Python Go Java C C++

Frameworks & Libraries

React Tailwind Next.js Next.js app router Svelte SvelteKit Firebase Supabase Twilio Stripe Prisma ORM Drizzle ORM React Query tRPC Zod React Hook Form shadcn/ui BeautifulSoup Puppeteer