Tom Moosbrugger

Software Engineer

Bay Area, CA | tamoosbrugger@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Technical Skills: TypeScript, JavaScript, Python, HTML, CSS, React, Next.js, Redux, Tailwind CSS, SQL, PostgreSQL, SQLite, Flask, Node.js, Express.js, Sequelize, SQLAlchemy, Alembic, Git, AWS, Docker, Figma

Relevant Skills: Project Management, Strategic Planning, Problem Solving, Agile/Scrum, Object-Oriented Programming (OOP)

Work Experience

Full-Stack Engineering Intern *The Commons XR*   August 2025 - Present

JavaScript · React · Plotly.js · Python · Flask · PostgreSQL · BigQuery

- Engineer React UI components with CSS modules, enhancing dashboard navigation and accelerating access to key user data
- Generate custom data visualizations with Plotly.js, delivering clear insights into key user engagement metrics
- Create RESTful API endpoints in Python and Flask to serve critical user data, enhancing frontend responsiveness and reliability
- Write optimized BigQuery SQL queries to transform migrated data, reducing load times and ensuring timely availability for visualizations
- Engage in weekly stand-ups, peer code reviews, and collaborative problem-solving to build and improve full-stack functionality

Full-Stack Software Engineering Intern *LVC Solutions*   March 2025 - June 2025

TypeScript · Next.js · Tailwind CSS · Firebase

- Designed a reusable checkout component using Next.js and Tailwind CSS, enabling seamless integration across multiple pages while maintaining a consistent UI
- Implemented client-side Stripe payment flows, including secure session handling, form validation, and error feedback, delivering a smooth, reliable checkout experience
- Built secure, type-safe API endpoints in Next.js/TypeScript to handle Stripe checkout sessions, subscription management, and customer data storage, ensuring reliable and compliant payment flows
- Integrated Firebase as a backend data store for payment and subscription records, optimizing real-time updates and transactional integrity for user accounts

Development Director *Financial Beginnings Oregon*   January 2017 - June 2023

- Led organization's grantseeking activities, overseeing all project planning, monitoring, and execution; successfully delivered over 200 grant proposals, securing $2M+ in funding and doubling the organization's year-over-year revenue
- Conceived and deployed custom Excel-based tracking systems to monitor project progress, deadlines, and key performance indicators (KPIs), enabling data-driven insights into success rates and fundraising projections

Project Experience

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tom-moosbrugger.com *TypeScript · Next.js · Tailwind CSS · React-Hook-Form · Nodemailer*   [live](#) | [github](#)

- Deployed a responsive, SEO-optimized portfolio using Next.js and Tailwind CSS, implementing a mobile-first design that adapts seamlessly across devices
- Formulated scroll-triggered animations and micro-interactions using custom CSS animations, creating a dynamic user experience
- Architected a custom light/dark mode toggle, utilizing local storage to persist user preferences across sessions
- Executed client-side fetching from Next.js API routes, handling asynchronous data, errors, and state updates in React components to ensure smooth content rendering and maintainable code structure

NextHire *React · Redux · HTML/CSS | Python · Flask · SQLAlchemy · Alembic · AWS S3 | PostgreSQL · SQLite3*   [live](#) | [github](#)

- Constructed a modular React dashboard for NextHire, a job application tracker, with reusable components to track job application data in a responsive interface
- Managed state with Redux to synchronize data across components, ensuring predictable flows and real-time UI updates
- Built a Flask API with SQLAlchemy to model and manage relational data, optimizing queries for efficient retrieval and update of job applications
- Integrated AWS S3 for secure file storage, with server-side validation to ensure safe, reliable handling of resumes and cover letters

Education

App Academy - Full-time, immersive software engineering bootcamp, 2024-2025

Hong Kong University - Bachelor of Arts, English Literature and Philosophy, 2012