Tom Moosbrugger
Software Engineer
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Professional Summary

Full-Stack software engineer experienced in building and scaling production applications across frontend, backend, and data layers. Comfortable owning the full feature lifecycle, from performant UI design to the development of robust, scalable APIs. Previously a nonprofit professional, offering senior-level project management skills and a proven ability to translate complex organizational needs into technical solutions.

Skills

Frontend: JavaScript, TypeScript, HTML, CSS, React, Next.js, Redux, Tailwind | **Backend**: Python, Flask, Node.js, Express.js
Data, Databases & ORMs: SQL, PostgreSQL, BigQuery, SQLAlchemy, Sequelize | **Cloud & Dev Tools:** AWS, GCP, Git, Docker, Figma
Professional: Project Management, Strategic Planning, Problem Solving, Agile/Scrum

Work Experience

Full-Stack Engineering Intern *The Commons XR*   August 2025 - Present
JavaScript · React · Python · Flask · PostgreSQL

- Developed a responsive analytics dashboard using React and Plotly.js, transforming complex datasets into actionable, real-time performance insights for end users
- Engineered a scalable state management solution with React Context and useReducer, implementing client-side caching to reduce redundant API requests and improve dashboard performance
- Configured and maintained the integration between the Python/Flask backend and BigQuery, ensuring secure, reliable access to the organization's data pipelines
- Built RESTful API endpoints in Python/Flask to serve user data to frontend dashboards, ensuring structured, consistent responses for real-time visualizations
- Identified and troubleshot dashboard bugs, producing structured reports that enabled the data team to replicate and resolve data inconsistencies
- Presented dashboard features to stakeholders and integrated user feedback to iteratively refine data visualizations and streamline the end-user experience

Full-Stack Software Engineering Intern *LVC Solutions*   March 2025 - June 2025
TypeScript · Next.js · Tailwind CSS · Firebase

- Led Stripe integration across the platform, enabling users to securely make one-time and subscription payments
- Designed a reusable frontend checkout component in Next.js and Tailwind CSS, supporting rapid integration and delivering a seamless payment experience
- Developed type-safe Next.js API endpoints to generate and manage Stripe checkout sessions for both one-time purchases and recurring subscriptions
- Implemented server-side webhook logic to sync Stripe events with Firebase, ensuring accurate updates to user accounts and subscription statuses
- Created Jest tests for the checkout UI, validating functionality across payment types and supporting future feature maintenance

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
- Implemented structured reporting process, adhering to a strict calendar to ensure delivery of project updates and documentation
- 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
- Collaborated with other leaders to define strategic goals and develop detailed work plans, contributing to the organization's long-term vision and success

Education

App Academy - Full-time, immersive software engineering bootcamp, 2024-2025
Hong Kong University - Bachelor of Arts, English Literature and Philosophy, 2012