

Thomas E. Gooch

Software Development Engineer

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Austin, TX

I specialize in front-end development, creating responsive, user-friendly websites and applications that enhance user engagement. I possess strong back-end skills, particularly in RESTful and GraphQL APIs. I am well-versed in Agile methodologies, ensuring quality project delivery. I am highly collaborative, well-spoken, and work well in any team. I have 5 years of experience working remotely and traveling for work as needed. I am a machine learning and AI enthusiast, well-versed in a range of AI technologies.

Professional Experience

Tokyo Electron – Austin, TX

Dec 2022 – Present

Software Development Engineer - Business Applications

Tokyo Electron is a global leader in semiconductor manufacturing equipment. I worked as a Software Development Engineer on the Business Applications team, supporting and enhancing enterprise-scale internal applications used across global operations.

My work involved collaborating with business stakeholders to translate requirements into reliable software solutions while maintaining consistency with established architectural and operational standards. A key aspect of the role was frequent cross-cultural collaboration with our co-headquarters in Japan to align on technical decisions, workflows, and shared standards across regions.

This role provided experience working within a large, globally distributed organization, balancing regional needs with centralized systems in a highly technical and regulated environment.

Primary technologies: HTML, CSS, JavaScript, React, Java EE17, SpringBoot, OutSystems, Boomi, SSIS, MS SQL

Key Contributions:

- Designated as the US Subject Matter Expert for React App Development using Springboot back-end systems and MS SQL Databases.
- Designed and delivered a System Status tracking application using Java and JavaScript, providing real-time visibility into multiple systems' service health, which was crucial during high-impact software transitions.
- Deployed a reactive Third-Party Logistics monitoring application that simplified shipment tracking and reporting, exposing real-time shipping data to non-technical users without sacrificing depth or accuracy.
- Modernized nine large-scale customer-facing websites by upgrading HTML4 to HTML5, implementing ARIA labels to meet WCAG 2.1 accessibility standards, and migrating jQuery 1.1 to 4.1 across more than 1.3 million lines of code.

Technical Proficiencies

Front-end Development: JavaScript, React, TypeScript, ContextAPI, Next.JS, Tailwind, Sass, ShadCN-UI, HTML, CSS

Back-end Development: MongoDB, Express, Node.js, Socket.IO, MSSQL, Firebase, Java Spring Boot

Development Tools & Platforms: VSCode, Postman, Netlify, Vercel, AWS, OutSystems, Boomi

Testing & Project Management: Mocha, Jira, Kanbanize/BusinessMap

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Key Projects

The Gathering Call (2025): - [Visit Site \(Production\)](#) - Demo account available upon request.

- Tech Stack: Next.js, Stripe, MongoDB, Vercel
Planned Integrations: Twilio, Socket.IO, PayPal, BoardGameGeek API
- Designed and developed a full-stack web platform focused on solving the most persistent problem in tabletop gaming communities: reliable session scheduling. The application enables users to create, discover, and manage board game sessions and long-running campaigns while reducing coordination friction.
- Implemented user-driven features including game and campaign listings, host-managed sessions, and a peer-to-peer marketplace for buying and selling games. Built a monetization layer allowing hosts to offer paid sessions through Stripe, supporting both one-time payments and subscription models.
- Architected the application for future real-time communication, notification workflows, and external data enrichment through third-party APIs. Emphasized scalability, clean data modeling, and extensibility to support future growth.

Willamette Valley Water Polo (2024): [Visit Site \(Production\)](#)

- Engineered and deployed a full-stack team management application for a competitive water polo organization. The platform centralizes team operations, scheduling, and payment workflows into a single, production-ready web application.
- Integrated Google Calendar for event coordination, Stripe and PayPal for payment handling, and MongoDB for persistent team and user data. Focused on reliability and ease of use for non-technical users, ensuring coaches and players could manage logistics without training or documentation overhead.
- The application is actively used by a water polo team in Oregon and has remained in continuous production use for over three years, demonstrating long-term stability and maintainability.

Simply Roomy Organizing (2024): [Visit Site \(Production\)](#)

- Delivered a complete website redesign and migration for a freelance client under a strict deadline. The project was completed over a single weekend due to the client's existing hosting expiring the following Monday, requiring zero downtime and immediate production readiness.
- Handled design refresh, content migration, and deployment to a new hosting environment while preserving SEO continuity and customer accessibility. Prioritized performance, clarity, and maintainability using lightweight, framework-free frontend technologies.
- The site remains in active use by the business owner and has been successfully serving customers for its second year in production.

Education & Credentials

- Bachelor of Applied Science in Software Development (In Progress - est Jan 2027) | Western Governors University
- Google AI Essentials | Google | 2025
- Google Agile Essentials | Google | 2025
- Boomi Professional Developer Certification | Boomi | 2023
- Responsive Web Design | [FreeCodeCamp.org](#) | 2019

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Community Support

Dallas Software Developers – Dallas, TX (Remote)

Spring 2025 - current

Community Volunteer

Dallas Software Developers is a community-driven meetup group based in Dallas, Texas, focused on helping developers build practical, job-ready skills through collaborative, project-based learning. The organization hosts regular events, workshops, and multi-week programming cohorts designed to bridge the gap between tutorials and real-world software development.

Key Contributions:

- Volunteer contributor supporting community-run programming cohorts designed to guide junior developers through six-week, project-based learning experiences culminating in a demo web application. The program emphasizes practical skill development, collaborative workflows, and shipping a functional product rather than isolated exercises.
- Provide technical mentorship and project guidance to junior developers, helping them navigate real-world challenges such as feature scoping, debugging, code organization, and version control. Offer hands-on support while encouraging independent problem-solving and peer collaboration.
- Lead and facilitate two recurring meetings per week to track progress, unblock issues, and maintain momentum across the cohort. These sessions include project check-ins, technical discussions, and alignment on milestones to ensure teams remain on track to deliver a working demo by the end of the program.
- Support a positive, inclusive learning environment by fostering clear communication, setting realistic expectations, and reinforcing best practices for collaborative software development in a team setting.

100Devs - Austin, TX (Remote)

Jan 2022 – Dec 2022

Contract Full Stack Web Developer & Community Mentor

100Devs is a web development agency focusing on early-career developers led by industry-leading instructors. My role was as an IC and Team Lead, where I spearheaded multiple client projects with new developers, provided code reviews, and led instructional projects to help them develop their skills. Technologies used: HTML, CSS, JavaScript, React, Context API, ShadCN-UI, Redux, NextJS, MongoDB, NodeJS, and Express.

Key Contributions:

- Achieved 100% on-time completion rate, with six projects delivered over 15% ahead of schedule while ensuring client satisfaction and additional time for review.
- Conducted 3-hour skill development workshops for new Front-End Developers, covering technologies such as HTML, CSS, JavaScript, React, Redux, and NextJS.

Code CoOp Austin – Austin, TX

2024 – Aug 2025

Meetup Organizer

Organize and lead Code CoOp Austin meetup group for pre- and early-career developers.

Key Contributions:

- Host monthly meetup groups, lead discussions, and curate presentations for the community meetings.
- Act as a mentor to newer developers, leading through projects for their portfolios, such as NitroHood.