

# 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

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**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

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**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

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**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

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- **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](https://www.freecodecamp.org) | 2019

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## Community Support

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### 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.