Zaden Connell

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EDUCATION

Liberty University: B.S Software Engineering, Business Minor — Lynchburg, VA
*Liberty University is accredited by the Computing Accreditation Commission of ABET — *Aug. 2021 – May 2025*
- 3.81 GPA, Dean's List
- Resident Assistant, Competitive Programming Club, Cyber Defense Club

EXPERIENCE

Full Stack Developer — June 2024 - Present
SwiftSeg — *Remote*
- Developed and maintained **scalable, responsive web applications** using **Next.js**, enhancing user experience and reducing page load times by **40%**.
- Integrated **Supabase** as a backend and database solution for real-time data management, authentication, and storage, streamlining development.
- Contributed to **Agile Kanban** workflows, improving team efficiency and workflow through effective communication.

AI Developer & Advisor — August 2024 - May 2025
Liberty Analytical Support Initiative — *Lynchburg, VA*
- Presented a **custom AI chatbot** to **NATO** in Rome, Italy, enhancing cultural competency for security force advisors.
- Led development of an AI chatbot, including training **data design and optimization**.
- Created training materials and **strategic AI integration plans** for NATO SFA programs.
- Analyzed current training workflows, providing actionable **AI implementation insights**.

Software Development Intern — Summer 2023
Samaritan's Purse — *Boone, NC*
- Independently developed and deployed **14 feature releases and bug fixes** for an internal-facing CRM application, which serves hundreds of users.
- Implemented UI and backend features using **Angular, TypeScript, and C#** to ensure validity and enhance UX.
- Designed and implemented account data validator that accurately flagged **over 500k** accounts.
  * Increased data validator load and running efficiency by over **4x** times.

PROJECTS

Availi | *Next.js, TypeScript, PostgreSQL* — 2025
- Built a meeting scheduling app with **Next.js** and **TypeScript**, enabling users to create meetings, add participants, and check availability.
- Designed and integrated a **RESTful API** with a **PostgreSQL** database hosted on Neon for efficient backend operations.

Simple OS v3 | *C, C++, x86-64 Assembly* — 2024
- Developed a simple operating system using **C, C++, and x86-64 Assembly**

Multithreaded Game of Life | *C++* — 2024
- Developed a **multi-threaded** implementation of Conway's Game of Life in **C++** using **pthreads**

VSCode to Visual Studio Extension | *Typescript, VSCode API* — 2024
- Developed a VSCode extension using **Typescript**
- Implemented functionality to convert **C++** projects in VSCode to work in Visual Studio
- Successfully published on the Visual Studio Marketplace with **1.3k+ active users**

TECHNICAL SKILLS

Languages: C/C++, Python, SQL, Typescript, C#, HTML/CSS
Frameworks: React.JS, Next.js, Node.js, Angular, Astro, TailwindCSS/UI
Developer Tools: Git, Docker, VSCode, Visual Studio
Software Development: Agile (SCRUM), Jira, Continuous Integration/Deployment, Test-Driven Development, Frontend, Backend