SPENCER DAVIS

SOFTWARE ENGINEER | FULL-STACK DEVELOPER

(727) 692-0070 | sdavis26@me.com | Portfolio: spencerdavis.dev | GitHub | LinkedIn | Tampa Bay, FL

SUMMARY

Full-stack software engineer transitioning from chemical engineering, with proven process optimization expertise. Now a full-time Springboard student (expected June 2025), applying a data-driven mindset to build scalable applications using MERN, Swift, Python, and TypeScript. Eager to combine my systems-oriented perspective and collaborative leadership style to deliver innovative web and mobile solutions.

PROFESSIONAL EXPERIENCE

Process Engineer, Corning Inc.   **2015 - 2016**
- Led a cross-functional team to improve throughput of prototype machines for glass manipulation, increasing operational efficiency by ~15%.
- Performed experimental design and statistical analysis to optimize fiber-optic manufacturing processes.
- Generated documentation for global use, standardizing processes and ensuring regulatory compliance.

Mix Lab Engineer (Intern), Transitions Optical   **2013**
- Created a barcode system to track photochromic solutions globally, reducing material traceability errors.
- Developed catalyst calculation software and batch creation documentation, streamlining workflows.
- Added auto-calculation tools to recordkeeping programs, cutting data-entry errors significantly.

PROJECTS

Dog Adoption Platform API | GitHub
- RESTful Node.js/Express API for dog registration, adoption, and removal with JWT authentication.
- Technologies: MongoDB (Mongoose), bcrypt, Mocha/Chai/Supertest.

Space Travel | GitHub
- React-based app simulating spacecraft building and interplanetary travel via a mock API.
- Technologies: React Router, Vite, Vitest, CSS Modules, Error Boundary.

App & Game Design Projects
- **Radcast (Swift):** Personal prototype enabling synchronized music streaming across platforms.
- **Unity Game Prototype (Unity, C++):** Exploratory project to learn game design fundamentals.

SKILLS

Languages: JavaScript (ES6+), Swift, Python, C++, TypeScript, HTML, CSS
Front-End: React.js, Next.js, Redux
Back-End: Node.js, Express.js (REST APIs, MVC architecture)

Databases: MongoDB, PostgreSQL
Tools & Concepts: Git/GitHub, GraphQL (intro), Agile Development, Asynchronous Programming, OOP, Data Structures & Algorithms
Testing: Jest / Vitest, React Testing Library

EDUCATION

Springboard | Full-Stack Web Development Bootcamp   **Expected June 2025**
Cornell University | Master of Engineering, Chemical Engineering   **2014 - 2015**
University of South Florida | Bachelor of Science, Chemical Engineering   **2009 - 2014**