

SPENCER DAVIS

SOFTWARE ENGINEER | FULL-STACK DEVELOPER

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SUMMARY

Full-stack software engineer skilled in MERN stack, Swift, Python, C++, and TypeScript. Cornell-educated and Springboard-trained, I have a proven track record in process improvements at Corning Inc. and building dynamic, user-centric web and mobile applications. I leverage Agile methodologies, robust version control, and modern development practices to deliver efficient, scalable 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.

Engineering Intern, Transitions Optical

Summer 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

Space Travel (Github: [spencerdavis226/Hatchways-React-Space-Travel](#))

- Built a solar system exploration app featuring dynamic routing, state management, and robust testing.

Space Mission Control (GitHub: [spencerdavis226/space-mission-control](#))

- Developed a React-based dashboard for managing space missions with filtering and dynamic updates.

App & Game Design Projects

- **Radcast (Swift):** Prototype app enabling synchronized music streaming across platforms.
- **Unity Game Prototype (Unity, C++):** Brief project exploring game design fundamentals during intensive Unity lessons.

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