

JUSTIN LUFT

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Experience

Capstone Developer, College of Charleston *Jan 2025 - May 2025*

- Developed an interactive photo booth for Raspberry Pi, with low-level hardware control in procedural code.
- Led sprint planning and execution in a 5-sprint Scrum cycle, delivering a reliable, production-ready system.
- Deployed and optimized the system, documenting architecture for long-term maintainability.

BuildCarolina Graduate Showcase, CharlestonHacks Hackathon 2nd Place Winner *July 2025*

- Developed a sleek, searchable portfolio platform to spotlight software engineering graduates:
- Developed a responsive UI with Vite, TypeScript, and Tailwind CSS using modular components.
- Integrated Firebase for real-time sync, authentication, and cloud-based user data.
- Designed filters, sorting, and dynamic routing to help employers browse profiles efficiently.

South Carolina Bill Tracker *Created a robust bill tracking system for South Carolina legislation:*

- Built a legislative bill tracker focused on real-time updates and accessibility:
- Designed a Python scraper to regularly pull and parse data from the SC Statehouse website.
- Normalized data into Firebase for optimized querying and storage efficiency.
- Automated deployments and data refresh using GitHub Actions and CRON schedules.

Multithreaded Sudoku Solver *Engineered a multithreaded brute-force Sudoku solver:*

- Applied multithreading to parallelize grid evaluations, improving performance.
- Implemented recursive backtracking with pruning techniques to reduce redundant computation paths.

CinemaCache Self Contractor *2025*

- Developed a React-based web app to manage personal movie libraries with clean UX.
- Implemented Firebase Auth and Firestore for secure logins and synced user collections.
- Enabled customized movie recommendation prompt generation to enhance user discovery.

AI Powered Prop Firm Comparison Tool Self Contractor *2025*

- Built a filterable platform comparing proprietary trading firms using AI-enhanced web scraping.
 - Developed a WordPress plugin to capture emails and display interactive comparison tables.
 - Automated data collection with Python and BeautifulSoup for up-to-date insights.
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Education

Bachelor of Science – Computer Science *College of Charleston August 2021 - May, 2025*

- GPA: 3.69 (Cum Laude) | President's List: Fall 2022, Spring 2024
 - Software Engineering, Advanced Algorithms, Database Concepts, Programming Concepts, UI Development
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Skills

- Java, Python, C, TypeScript, SQL, R, MIPS, Prolog
- React, Firebase (Auth, Firestore), Unity, Tailwind CSS, WordPress, GitHub Actions
- OOP, Full-Stack Development, Multithreading, Agile (Scrum), DSA, Rapid Language Adaptation