

Matthew Leboffe

github.com/MatthewLeboffe

matthewleboffe@gmail.com

linkedin.com/in/matthewleboffe/

EDUCATION

Carnegie Mellon University, Pittsburgh, PA

Expected May 2025

B.S. Information Systems, Additional Minors in Computer Science, Software Engineering

Honors: Dietrich College Dean's List with High Honors

Relevant Coursework

15122 Imperative Computation

67262 Database Design and Development

17313 Foundations of Software Engineering

15150 Functional Programming

67240 Mobile Web Design & Development

17214 Concurrent Software Construction

15210 Parallel & Sequential Algorithms

67272 Application Design and Development

67443 Mobile Application Development

EXPERIENCE

Software Engineer, NodeBB

June 2023 — Present

- Led a team of five to integrate a Q&A feature into a top open-source forum platform
- Executed agile development using JavaScript and TypeScript in 4-week sprints with daily scrums
- Pivotal in transitioning a major codebase segment from JavaScript to TypeScript for enhanced performance
- Mastered version control by leveraging Git/GitHub for code integration, review, and collaboration

Fullstack Developer, Hartman Realty Group

June 2022 — Aug 2022

- Collaborated with a team utilizing scrum methodology to integrate CRM and accounting systems
- Leveraged ETL pipeline, automating mailing lists, 9% uptick in engagement through the use of Smtplib
- Generated seamless frontend and backend codebases using Ruby on Rails coupled with FastAPI JSON

Frontend Developer, Jada House International

Sep 2021 — Dec 2021

- Supported the organization's mission to empower women of color through technology by developing innovative solutions
- Designed and developed a responsive website for Jada House International utilizing HTML, CSS, and Bootstrap
- Created webpage wireframes in Figma to effectively communicate new feature proposals to the organization's founder
- Engineered user-friendly interfaces to facilitate online donations and fundraising campaigns, enhancing user experience

PROJECTS

Cafe23 Employee Management System

- Developed a robust employee management system via Ruby on Rails, leveraging MVC principles, and 100% test coverage
- Customized role-centric dashboards for administrators, managers, and employees, enhancing user experience and efficiency
- Created an API, expanding system capabilities by facilitating access to pivotal data on employees and shifts by level of access
- Secured the platform by seamlessly integrating authentication and authorization modules utilizing bcrypt

GeoDraw Computer Vision

- Architected a Python-based project using Tkinter and OpenCV for real-time movement tracking
- Utilized ROI tracking to assess user movement precision and developed an algorithm to judge movement accuracy
- Formulated an algorithm for dynamic, non-uniform polygon generation based on complexity parameters

Minecraft Build Tool

- Engineered a Python tool leveraging the ANVIL library, to interpret Minecraft's Named Binary Tag (NBT) tree data structure
- Functionality allows users to input world coordinates, with the tool adeptly mapping these coordinates from NBT data
- Crafted a custom GUI for enhanced user experience, ensuring straightforward navigation and efficient data visualization

YouTube Database

- Recreated YouTube's database structure employing SQL, PostgreSQL, and MongoDB, capturing the platform's data dynamics
- Articulated and crafted both Conceptual and Relational database models, ensuring clarity and efficiency in data handling
- Mapped functional dependencies, normalizing the database to BCNF, for optimal data integrity and performance

SKILLS AND LANGUAGES

Programming/Scripting Languages: Python, C, SQL, Java, R, SML, Ruby, TypeScript, JavaScript, HTML, CSS, Swift

Frameworks/Libraries: React, TensorFlow, NumPy, Pandas, Pillow, Matplotlib, OpenCV, Anvil, Rails, Bootstrap, BeautifulSoup, PostgreSQL, Materialize

Personal Toolkit: Git, Linux, Figma, Scrum, LaTeX, Object Oriented Programming, Functional Programming, Agile Development

Languages: English (Native proficiency), Spanish (Native proficiency)

Certifications: MS Suite (Access, Excel, Word, PowerPoint), 15+ LinkedIn Skill Assessment Badges

AWARDS AND RECOGNITION

ISC2 Undergraduate Cybersecurity Scholarship Winner

Hispanic Scholar Fund Winner

Nova Hackathon 1st Place

FBI Cyber STEM Program Graduate

International Science and Engineering Fair Qualifier

Florida Regional Qualifiers Policy Debate