

# Caleb L'Italien

+1 934-500-4492 | [litaliencaleb@gmail.com](mailto:litaliencaleb@gmail.com) | [caleblitalien.com/home](http://caleblitalien.com/home) | [github.com/CalebL'Italien](https://github.com/CalebL'Italien)

## EDUCATION

### Union College

*Bachelor of Science in Computer Science, Minor in Mathematics*

Schenectady, NY

Sep. 2020 – Jun. 2024

## SKILLS

**Languages:** COBOL, JCL, SQL, C, JavaScript, Java, Python, HTML/CSS

**Frameworks & Libraries:** React, Angular, Express.js, Node.js

**Databases :** MongoDB, MySQL

**Tools & Services:** Git, AWS, Docker

## EXPERIENCE

### Student Intern

*New York State Tax and Finance*

Feb. 2024 – Present

*Albany, NY*

- Took part in the COBOL boot camp, gaining practical skills in COBOL, JCL, and SQL
- Interfaced with fellow boot camp members on code quality and lab requirements
- Completed labs in an efficient, timely manner

### Full Stack Developer Intern

*Diamond Diagnostics Inc.*

Jun. 2023 – Sep. 2023

*Holliston, MA*

- Maintained a CRM platform, completing user tickets and enhancing core system functionalities in JavaScript
- Managed a MongoDB/AWS database ecosystem with an archive of over 10 million records across 50+ collections
- Transitioned legacy UI frameworks from Jade to Angular 15, optimizing user responsiveness
- Introduced automated permissions management, Microsoft Outlook integration, and product label generators

### Research Assistant

*Union College*

Sep. 2022 – Jan. 2024

*Schenectady, NY*

- Collaborated on a 20+ person team to research soft robotics movement strategies in a 2D environment
- Optimized genetic algorithm memory performance by 15%
- Refactored Docker containerization for deployments to Chameleon Cloud

## PROJECTS

### Portfolio Website Generator | *TypeScript, React, AWS, Docker, Rust, Shell*

- Developed an automated tool for users to generate personalized portfolio websites
- Implemented a Docker and AWS based solution for easy application packaging
- Derived caleblitalien.com from this project

### Instructional C Compiler | *Rust, Python, LLVM*

- Leading a team of 6 developers to redesign Union College's Compiler Design course
- Designing an LLVM 17 to Rust FFI with automatic memory management

### OS/161 | *C*

- Collaborated with 3 other students to design a functional operating system
- Designed process/thread implementation and memory management