

TYLER FONG

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EDUCATION

Georgia Institute of Technology, GPA: 4.0	<i>Expected May 2027</i>
Masters of Science, Computer Science (Computing Systems Specialization)	
Montgomery College, GPA: 4.0	<i>Aug 2023 - Dec 2023</i>
Coursework: Data Structures and Algorithms, Object Oriented Programming with C++	
University of Maryland, College Park, GPA: 3.3	<i>Graduated May 2022</i>
Bachelor of Science, Mechanical Engineering	

EXPERIENCE

Bentley	<i>May 2025 - Current</i>
<i>Software Engineering Intern</i>	
· Member of Substation.js team building a greenfield TypeScript application that streamlines substation design workflows, which expects to achieve a 40% improvement in engineering efficiency with a platform reach of 40,000 users in a \$300M market	
· Contributed to development of an integrated Git-style Collaboration Manager, enabling real-time multi-engineer workflows and version-controlled updates across the model.	
· Migrated core components of our CI/CD pipeline, including a 400+ unit test suite, cutting total CI/CD execution time by 80% and accelerating developer feedback cycles.	
· Engineered an automated testing system to increase test coverage from 15% to 90% , identifying and resolving critical data inconsistency bugs in the process	
Altieri LLC	<i>December 2022 - May 2025</i>
<i>Fire Protection and Plumbing Engineer</i>	<i>Norwalk, CT</i>
· Built fully automated tools with the pyRevit API for batch sheet creation and pipe calculations, saving 50 engineer hours weekly and improving accuracy by eliminating manual calculations.	
· Designed complex and unique plumbing and fire protection systems in Revit for multipurpose buildings at Yale, Brown, Harvard, Natural History Museum and more.	
· Managed relationships with architects, contractors, and agency regulators to ensure seamless system integration and code compliance	
· Created and executed three company-wide sustainability initiatives, improving the firm's environmental impact and advancing MEP 2040 objectives as part of a five-person team.	

PROJECTS

Job Offer Tracker

- Led a team of four engineers to build out an Android app for tracking, storing, and comparing job offers.
- Implemented persistent storage, customizable offer comparisons, and a job grading algorithm.

Distributed File System

- Developed a distributed file system in **C++** utilizing **gRPC** for efficient communication, supporting multiple clients with client-side caching for improved performance.
- Used synchronous and asynchronous threads to handle real-time file system events and server updates, ensuring data consistency across clients.

TECHNICAL SKILLS

Programming Languages	Java, C, C++, Python, HTML/CSS, TypeScript/JavaScript, MATLAB
Frameworks/Tools	React.js, Git/Github, Node.js, JUnit, Docker, NumPy, Scikit-learn