TYLER FONG

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EDUCATION

Georgia Institute of Technology, GPA: 4.0   *Expected May 2027*
Masters of Science, Computer Science (Computing Systems Specialization)

Montgomery College, GPA: 4.0   *Aug 2023 - Dec 2023*
Coursework: Data Structures and Algorithms, Object Oriented Programming with C++

University of Maryland, College Park, GPA: 3.3   *Graduated May 2022*
Bachelor of Science, Mechanical Engineering

EXPERIENCE

Bentley   May 2025 - Current
Software Engineering Intern

· 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
· Developed 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   December 2022 - May 2025
Fire Protection and Plumbing Engineer   *Norwalk, CT*

· 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