

# TYLER FONG

(301) · 642 · 7463 ◇ tyler.fong08@gmail.com ◇ linkedin.com/in/tyler-fong08 ◇ tfong08.github.io

## 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
- Built an automated testing system to increase test coverage from **15%** to **90%**, identifying and resolving critical data inconsistency bugs in the process
- 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.
- Contributed to development of an integrated Git-style Collaboration Manager, enabling real-time multi-engineer workflows and ensuring consistent, version-controlled updates across the model.

**Altieri LLC**

December 2022 - May 2025

*Fire Protection and Plumbing Engineer*

*Norwalk, CT*

- Developed automation tools with the **pyRevit API** for batch sheet creation and automated pipe calculations, reducing task time by **95%**.
- 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

---

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