Taha Ahmad

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Education

University of Pittsburgh, Pittsburgh, Pennsylvania   Aug 2020 - May 2023
B.S in Computer Science   **GPA: 3.98/4.00**

Relevant Coursework

- Data Structures & Algorithms I & II
- Software Quality Assurance
- Applied Cryptography & Network Security
- Web Applications
- Software Engineering
- Operating Systems
- Compilers

Software Projects

Place the Taste, Python/Flask, Google Cloud

- Collaborated with a team to create a social location-based recipe sharing web app called Place the Taste that allows users login with 2FA, post, browse, and discuss recipes from around the world on an interactive map.

Document Sharing Service, Java

- Worked with a team to develop a secure decentralized file sharing system consisting of a group authentication server, multiple file servers, and a client application using sockets.

Compiler for a New Programming Language, Rust

- Wrote a compiler for a new statically typed language called Truss, including a working lexer, parser, semantic analyzer, and code generator that outputs MIPS assembly.

File System, C

- Created a file system for Linux with all requested operations including creating folders and files and reading/writing to arbitrary bytes of a specific file.

Experience

Tutor   2020 - Present

- Giving in-person computer science fundamentals instruction to college students, communicating complex topics simply, resulting in consistent improvements in student exam grades.
- Developing and delivering classroom lectures on web applications, data structures, and algorithms to 15-20 students.

Skills / Tools

- Java
- JavaScript
- Git/GitHub, Linux
- Python/Flask/Pandas
- C
- Rust
- HTML/CSS/Bootstrap
- SQL
- Unit Testing/JUnit