

William ‘Trace’ Lippard
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Career Objective

Seeking an entry-level position in software development that offers growth into a technical leadership position.

Education

Bachelor of Science in Computer Science (Magna Cum Laude)

The University of Texas at San Antonio, Tx

GPA: 3.77

Relevant Course Work:

Artificial Intelligence (A-)	Advanced System Programming (A)
Compiler Construction (A)	Advance Software Engineering (A+)
Data Science (A)	Database Systems (A-)
Cloud Computing (A+)	Software Engineering (A)

Significant Projects (All Significant Projects source code can be viewed from my website under the project section.)

CPU/IO Scheduler Simulator and Performance Measure (Solo Assignment)

- In Java, I implemented a multithreaded program that read in a sequence of jobs.
- Involved creating and using a variety of data structures and utilizing locks for synchronization.
- The jobs simulate CPU and I/O access and it measures the performance of the system.
- Allows for different CPU scheduling algorithms (FIFO, SJF, PR, RR).

Project Meatbol (Position: Leader)

- Led a team of computer science students to create an interpreted language.
- Meatbol was capable of complex operations, nesting of statements, and built-in functions.
- I planned and implemented more than 90% of the 16,000 line project and demonstrates the ability to design, implement, and test a large code base with many connected parts.
- Used Git and GitHub for collaboration and Java as the language.

Restful Web Service (Position: Leader)

- Led a team of computer science students to create Restful Web Service.
- The Web Service utilized a CI/CD pipeline with GitLab runners.
- The pipeline contained a build stage, two testing stages, and a deploy stage.
- Utilized Git and Gitlab for collaboration and also for the CI/CD Pipeline, and NodeJs with Express and MySQL for the code production.
- Converted the project to Docker and Docker Compose, and converted the Docker Compose project into a Kubernetes project.
- I implemented more than 90% of the entire project while learning new languages and frameworks.

Technology Summary

Languages: C, Java, Python

Cloud: MPI, Hadoop 1.2.1, Spark 1.6

Operating Systems: Linux, Windows 7/10

DevOps: Docker, Docker-Compose, CI/CD Pipelines

Databases: SQL, MySQL

Software Engineering: OO, UML Diagrams, Design patterns

Version Control: Git, GitHub, GitLab

Tech Skills: Regex, SSH, Debugging, Unit Testing

Employment Experience

Apex Glass & Mirror — Glazer

June 2014 - May 2020

Installed auto glass, commercial glass, and residential glass. Fabricated commercial frames, cut flat glass, and handled walk-in customers.

Activities and Honors

Dean's List (Spring 2019, Fall 2018, Spring 2020)