HARRY GOSSE

46W 21st St Huntington Station, NY 11746 · gosseh@umich.edu · (646)-940-0945

EDUCATION

University of Michigan College of Engineering

Ann Arbor, MI

Computer Science GPA: 3.31

Sep 2018 - May 2021

Relevant Coursework: Web Systems (EECS 485) \cdot Introduction to Operating Systems (EECS 482) \cdot User Interface Development (EECS 493) \cdot Introduction to Computer Security (EECS 388) \cdot

Foundations of Computer Science (EECS 376) · Data Structures and Algorithms (EECS 281) ·

Introduction to Computer Organization (EECS 370) · Discrete Math (EECS 203)

Bronx High School of Science

Bronx, New York

High School GPA: 4.00

Sep 2014 - Jun 2018

WORK EXPERIENCE

Amazon Web Services

Software Engineer

Seattle, Washington August 2021 - Present

• CloudFormation Team

Juniper Networks

Software Engineer Intern

Sunnyvale, California May 2021 - August 2021

- Connected a ledger system to record configuration changes to the packet forwarding engine. This enabled live updates to the configuration of the router to be displayed for PTX and MX router models.
- Implemented a tagging system for nodes in the Advanced Forwarding Toolkit sandbox.

MTA New York City Transit

Queens, New York

June 2020 - Nov 2020

Database Developer Intern

- Tasked with design, development, testing, implementation and optimization of a database which will be used to track and monitor collective bargaining, contract administration, employee availability and forming out of work initiatives within the MTA Office of Labor Relations.
- Implemented a Python web crawler which scraped news articles and extracted key information to generate a daily digest to judge the public perception of transit services.

PROJECT EXPERIENCE

Smart Rainwater Barrel Python

Designed a smart storm water irrigation barrel calculating optimal amounts of water to release from weather and sensor data as a solution to water scarcity.

Traveling Salesperson C++

Implemented a program that calculates the optimal tour for the TSP. The program can also calculate a close to optimal tour in significantly less time using MST approximation.

Little Computer 2000 C

Created a functioning compiler and linker to turn multiple assembly programs into executable files and a simulated environment in which those files were interpreted and run in a fully working pipeline with a simulated cache.

Client/Server Side Dynamic Website Python, Javascript, SQLite, React

Built a client application using Python, Flask, JavaScript, React and asynchronous programming that makes AJAX calls to REST API to emulate Instagram with attributes such as infinite scroll, dynamic like and comment, and session control for each user.

Threading Library C++

Created a threading library that balances workloads across multiple CPUs. Included implementation of basic multithreaded interfaces like threads, mutexes, and condition variables.

Sports App Javascript, Firebase, Vue

Created a website that allowed only University of Michigan students to find other students that want to participate in group activities. This was done by having the sign-up page only accept emails with umich.edu domain.

SKILLS

Technical: C++, Python, Verilog, Go, HTML, Javascript, Flask, React, Vue, SQL, Jinja, Git

Environments: Windows, Linux, Visual Studio