

TAWFIQ MOHAMMAD

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EDUCATION

Georgia Institute of Technology

August 2020 - December 2023

Major: *B.S. in Computer Science*, GPA: 3.87/4.0,

Relevant Coursework: Computer Networks, Data Structures and Algorithms, Deep Learning, Compilers, Robotics, High-Performance Computer Architecture, Operating Systems, Advanced Algorithms, Processor Design

TECHNICAL SKILLS AND ADDITIONAL INFORMATION

Technical Skills: Java, JavaScript, ReactNative, Go, Python, Django, SQL, Flutter, C/C++, Assembly
Languages: English (native), Arabic (fluent), Spanish (intermediate)

EXPERIENCE

Google

May 2023 - Aug 2023

Software Engineer Intern

New York, NY

- Led the development and successful launch of a user-friendly star rating smart chip for Google Sheets, now available to **millions** of users.
- Utilized my expertise in Java and Javascript to discuss and formulate the design and implementation approach of the smart chip
- Participated in quality assurance testing for the smart chip, incorporating feedback to optimize its behavior and functionality

Google

May 2022 - Aug 2022

Software Engineer Intern

Seattle, WA

- Conceived and implemented a robust deployment completion classification procedure involving the cleaning and processing of over **two years** worth of deployment data using intricate SQL queries
- Developed deployment completion projection formulas and calculated projections using Go
- Led the design and implementation of a dynamic and interactive visualization dashboard using HTML, CSS, and JavaScript, serving as a key tool for over **100 users** monthly

Georgia Tech Stadium-IoPT

Aug 2021 - Jan 2023

Machine Learning Engineer

Atlanta, GA

- Collaborating with a cross-functional team of two engineers and a project manager to develop a cutting-edge football play classifier using spatio-temporal analysis techniques
- Utilizing Python and Tensorflow for advanced data processing, modeling, and analysis, thereby creating a football play classifier with **83%** accuracy

PROJECTS

SustAIn: Hackathon Project

- Built a social media platform to promote sustainable habits using Django, SQLite, Bootstrap, and GPT-3.5.
- Users can create and join challenges made by GPT-3.5, track their progress on a map, and see their friends' completed challenges on the feed

Compiler Design

- Designed and developed a Compiler in Python that performs static analysis and code optimization of Tiger-IR
- Uses optimization techniques such as redundancy elimination, instruction scheduling, and register allocation
- Performs MIPS32 code generation from Tiger-IR and control-flow analysis based on LLVM