

WALEED SAMOUH

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Summary

Motivated Computer Science graduate currently pursuing a Master's degree at Georgia Tech, with a solid background in full-stack web and mobile development. Proficient in Python, JavaScript, and modern frameworks, with experience in building scalable, high-performance applications. Adept at collaborating with cross-functional teams to deliver innovative and reliable software solutions. Skilled in problem-solving, software optimization, and adapting to dynamic project requirements, eager to contribute to impactful development projects.

Education

Georgia Institute of Technology

Master of Science in Computer Science (Online, Part-Time)

2025 – 2027

Atlanta, GA

York University

Bachelor of Science in Computer Science

2020 – 2024

Toronto, Ontario

Experience

Relnix

Co-founder, Software Engineer

October 2024 – Present

Remote

- Designed and launched an automated code analysis platform that improves code quality and test coverage by visualizing repository structures and dependencies, resulting in increased maintainability and a streamlined workflow.
- Implemented a scalable multi-database architecture (Neo4j for code structure, MongoDB for analytics, AWS S3 for storage), leveraging AWS SQS FIFO queues for reliable message processing, resulting in faster bug detection and resolution.
- Increased test coverage by integrating OpenAPI-driven automated test generation for untested functions, significantly reducing manual testing effort and enhancing code reliability for engineering teams.

Ontario Power Generation (OPG)

Software Engineer

January 2023 – August 2023

Toronto, ON

- Created large-scale SQL and Power BI dashboards to track work orders from initiation to completion, reducing completion times by 20% by automating data collection and reporting.
- Developed a Power BI dashboard to analyze Observation & Coaching data, boosting performance by quickly identifying trends by employing full-stack web development for data visualization and reporting.
- Enhanced the CFAM Dashboard to improve user efficiency by 30% by resolving critical bugs and optimizing data accessibility with SQL, Node.js, and React.js, driving over 100K hits and enabling better decision-making.

Rippen

Software Engineer

September 2022 – April 2023

Toronto, ON

- Developed full-stack mobile applications with React Native & Expo, enhancing user experience for 500+ mosque visitors by implementing prototypes and modern architectural patterns.
- Collaborated with an 8-member team on GitHub & Trello, accelerating development and testing cycles by 20% by establishing continuous integration and clear task management.

Projects

Fake News Spread Analysis | *Python, NetworkX, Pandas, scikit-learn, TensorFlow*

May 2024 – July 2024

- Developed Python scripts (NetworkX, Pandas) to analyze and visualize how real vs. fake news propagate on Twitter, constructing interaction networks for comparative spread analysis.
- Built ML models with scikit-learn and TensorFlow for sentiment analysis, employing NLP techniques to evaluate the emotional impact on tweet propagation.

E-cars Website | *TypeScript, Node.js, Docker, AWS, Prisma, MySQL*

September 2023 – December 2023

- Developed an e-commerce site with TypeScript and Node.js, using a microservices architecture for scalability and reliability.
- Deployed each microservice in Docker containers on AWS EC2 and used MySQL (via Prisma) for database interactions.
- Utilized TDD (Test-Driven Development) to maintain code quality and reliability throughout the development lifecycle.

Warehouse Management System | *Java, SQLite, JDBC*

October 2023 – November 2023

- Implemented a backend system in Java using SQLite, emphasizing object-oriented design and best practices for large-scale applications.
- Managed database operations with JDBC, ensuring efficient and reliable data storage and retrieval.

Technical Skills

Languages: Java, Python, C, C++, SQL (SSMS, MySQL, SQLite), TypeScript, JavaScript, HTML, CSS

Frameworks and Libraries: React.js, Node.js, Express.js, React Native, Expo, Pandas, NumPy, SciPy, scikit-learn, TensorFlow, NetworkX

Tools and Platforms: Git, Docker, AWS (S3, EC2), Azure Cloud, Power BI, REST API, Trello, Figma, Neo4j, MongoDB, JDBC, Unix/Linux, TDD (Test-Driven Development)