

Tona Otoro

tonaaotoro@gmail.com | [linkedin.com/in/tona-otoro](https://www.linkedin.com/in/tona-otoro) | tonao1.github.io | U.S. Citizen

EDUCATION

George Mason University

Fairfax, VA

Bachelor of Science in Computer Science, GPA: 3.97/4.00

- **Coursework:** Object-Oriented Programming (Java), Low Level Programming (C), Data Structures & Algorithms, Discrete Mathematics, Multivariable Calculus
- **Leadership:** ColorStack Academic Chair, Google Developer Groups Technical Lead
- **Selective Programs:** Pinterest Pin It To Win It, Capital One Tech Summit, Liberty Mutual Spark Summit

EXPERIENCE

Software Engineer Intern

June 2026 – Present

State Farm

Bloomington, IL

- Implemented a **REST API** endpoint with **Spring Boot** and **JUnit** testing as part of biweekly sprint cycles, automating issuance timestamps for **IBM IMS** transactions to reduce manual setup time by **~88%** (from **2 min** to **15 sec**)
- Deployed and validated code across QA and development environments on **AWS ROSA**, using Bruno for REST endpoint testing to verify changes without breaking existing functionality

Founder & Software Engineer

Apr. 2026 – Present

Parkeye

Fairfax, VA

- Built a parking-availability forecasting model with **XGBoost** quantile regression, engineering **21** features from cyclical time encodings and academic-calendar context to predict occupancy up to **4 hours** ahead, evaluated using **scikit-learn**
- Designed an **ETL** pipeline parsing **5 years** of historical lot-occupancy data (**25,700+** records across **14** George Mason parking lots) into a **PostgreSQL** database
- Deployed the model as a **FastAPI** microservice with a **30-minute** batch scheduler serving real-time forecasts to a **React Native** app, backed by an automated **pytest** suite
- Presented the system to George Mason parking staff and secured their support for a campus pilot, incorporating **400+** student feedback responses into feature prioritization ([Demo](#))

Junior Programmer Intern

Jan. 2026 – May 2026

Transurban

Alexandria, VA

- Resolved **Jira**-tracked tickets to develop a Python pipeline processing **4,000+** daily ETC transactions, automating statistical analysis of toll violations and logging detection confidence metrics to a **MySQL** database
- Built a **Pandas**-based Python alerting script to monitor ETC transaction build latency, replacing weekly manual health checks with near-instant automated detection, cutting failure detection latency by **~99%**

Undergraduate Teaching Assistant

Jan. 2026 – May 2026

George Mason University

Fairfax, VA

- Tutored a class of **40+** students and responded to **200+** questions on the course Q&A Piazza page
- Debugged student **Java** programs during office hours and lab sessions, diagnosing logic errors in recursion, object-oriented design, and data structure implementations

PROJECTS

Consil AI | *Next.js, Supabase, TypeScript, Azure*

[GitHub](#)

- Won **1st Place at PatriotHacks 2025 (AI Track)**
- Developed a teacher dashboard for managing student profiles, generating personalized improvement plans, and building classroom seating charts from one interface
- Integrated an AI-powered planning assistant using an **Azure OpenAI Phi** agent and a **BeautifulSoup** scraper for source-backed recommendations

TECHNICAL SKILLS

Languages: HTML/CSS, Java, C, Python, TypeScript, JavaScript, SQL

Frameworks: React, Next.js, FastAPI, Pytest, Pandas, XGBoost, Scikit-learn, Spring Boot, JUnit, React Native

Databases: PostgreSQL, SQLite, MySQL

Tools & Platforms: Git, Docker, Jupyter Notebook, Expo, Azure, GitHub Actions, Jira, AWS, Bruno

Machine Learning: Feature Engineering, Model Training & Deployment, Statistical Analysis, Data Pipelines (ETL)

Concepts: RESTful APIs, Data Structures & Algorithms, Object-Oriented Programming, Client-Server Architecture, Relational Databases, Agile Methodologies, CI/CD