

MOHAMMED TIJANI

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EDUCATION

University at Albany

GPA: 3.79

Degree: B.S. Computer Science and Applied Mathematics | **Minor:** Mathematics

Graduated: May 2025

Programming Languages: Java, JavaScript, C#, Python. | **Web Technologies:** HTML, CSS, XML, Angular, Node.js.

Cloud & Infrastructure: AWS (DynamoDB, EC2, Lambda, S3), Cloudflare, Docker, Kubernetes. | **Database:** PostgreSQL, MySQL, Redis.

Professional Experience

Cook Systems — FastTrack IT Program

Memphis, TN

Full Stack Developer

July 2025 – Sep 2025

—**Java, Spring Boot, JavaScript, Angular, PostgreSQL**

- Built a Twitter-clone REST API using Java, Spring Boot, and PostgreSQL, designed and tested backend endpoints, implemented database schemas from ERDs, and validated functionality with Postman.
- Developed a multiple-choice Angular game, creating UI components, integrating API calls, and implementing scoring logic.
- Engineered a 'Dev Duel' web app that compares GitHub profiles. Implementing GitHub's API request, caching responses to reduce calls, and building the comparison logic.
- Collaborated in teams of 2 – 3 using GitHub Issues and branching strategies; presented completed projects to the entire cohort, demonstrating code quality and application features.

Your Bis (Web Service) ➔

Queens, NY

Founder/Developer

May 2025 – Present

—**JavaScript, Cloudflare, AWS, Next.js**

- Engineering robust, self-hosted Linux API servers, implementing HTTPS and token-based authentication to deliver secure and high-performance web services.
- Managing end-to-end web deployment, from domain registration and DNS to SSL provisioning, and utilizing Cloudflare Tunnels for reliable client site hosting, achieving 99.99% uptime.
- Developing and integrating Google Analytics dashboards for comprehensive real-time visitor metrics and conversion funnels, persisting data in AWS DynamoDB for scalable analytics.
- Optimizing website performance by integrating image compression and CDN, resulting in 60% reduction in page-load times and improving SEO.

The Research Foundation (SUNY)

Albany, NY

Undergraduate Research Assistant

March 2025 – May 2025

—**Python, Pandas, NumPy, Matplotlib, scikit-learn**

- Assisted with the deployment, calibration, and maintenance of high-grade air quality instruments and low-cost sensor servicing.
- Processed, cleaned, and validated large-scale air quality datasets, 16,000+ data points over 2 years to prepare data for analysis and modeling.
- Developed Python scripts utilizing Pandas and Matplotlib to generate comparative data visualizations, such as customized box plots, for analyzing air quality trends and anomalies across different monitoring network types (e.g., NYC Mesonet, Micronet).
- Engineered features (e.g., one-hot encoding for location/season) and trained a Random Forest Classifier model on extensive datasets (750,000+ data points) to predict pollutant types based on environmental and temporal features.
- Analyzed and interpreted complex air quality data by creating statistical summaries (e.g., model performance metrics) and visualizations (e.g., classification heatmaps, feature importance plots) to identify patterns.

Projects [GitHub](#) ➔

'SHANK' JAVA Language Compiler ➔

—A Programming language written in java, featured loops, data types, recursion etc.

CAPSTONE CGM Application

—A glucose monitoring application for patients with diabetes with a predictive model.

MORDLE BOT ➔

—A predictive model for WORDLE with automated games to build a large data set for training and testing, achieving 93% accuracy.

YRBIS (Local Business App) ➔

—A full-scale application for local community members to post services they offer, leveraging multiple AI enhanced features and utilizing AWS.

Extracurriculars

Tau Epsilon Phi, Incorporated

New Member Educator (NME)

—Coordinated events for incoming members and raised over \$5000 for Our Military Kids.