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

- Implemented a RESTful Web Service with multiple CRUD endpoints using Java, Spring Boot, and Onion architecture.
- Built the database schema from an ERD, managing data with PostgreSQL (pgAdmin), JPA, and MapStruct for DTO/entity mapping.
- Programmed controllers and services to handle HTTP requests, backend validation, and business logic.
- Validated all endpoints with Postman, successfully passing 100+ automated test cases for Tweets, Users, Tags, Mentions and Followers.

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 (NDA)
–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.