

# OMAR MADJITOV

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**PORTFOLIO:** [www.mynameisomar.netlify.app](http://www.mynameisomar.netlify.app)

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## EDUCATION:

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**Masters of Computer Science, Georgia State University, GPA 4.0**

May 2026

**Bachelors of Computer Science, Georgia State University, GPA 3.63**

December 2024

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## TECHNICAL SKILLS:

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**Cloud Technologies:** AWS, Supabase, Render, Netlify, Docker, GitHub, CI/CD, Git, Docker

**Programming Languages:** Python, Java, JavaScript, TypeScript, SQL, HTML, CSS, Bash/Shell Scripting

**Frameworks & Libraries:** React.js, Next.js, Node.js, Express.js, Tailwind CSS,

**Data Science & Analytics:** Machine Learning, Deep Learning, Statistical Analysis, Feature Engineering, Data Cleaning & Wrangling, Model Evaluation, Data Visualization, NumPy, Pandas, Scikit, TensorFlow, PyTorch, Matplotlib, Seaborn

**Tools & Platforms:** PowerBI, MySQL Workbench, PostgreSQL, Supabase, Jupyter Notebook, Netlify, Render, MongoDB

**Other Skills:** Agile Development, Cloud Deployment, REST APIs, Problem Solving, Data Privacy & Ethics

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## EMPLOYMENT:

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**Georgia State University, Graduate Teaching Fellow — Python**

August 2024 – Present

- Taught fundamentals of Python programming to students from non-technical background, simplifying complex concepts into practical, beginner-friendly lessons.
- Design and grade Python assignments, ensuring alignment with course objectives and measurable learning outcomes.

**WellStar HealthCare System, IT Intern**

August 2023 – August 2024

- Provided technical support for hardware and software, maintained network infrastructure, and performed computer imaging and deployment for standardized IT operations in a healthcare environment.
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## PROJECTS

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**Full Stack Engineer — Job Ledger (Team Lead)**

Fall 2025

<https://jobledger.app/> — React, Vite, Express, PostgreSQL, JWT

- Designed and built a full-stack job-application tracking platform with user-scoped CRUD, JWT-based authentication, and protected routes.
- Implemented analytics dashboards and external job-feed ingestion (Greenhouse/Indeed-style APIs), improving application organization efficiency by **25–40%**.
- Deployed production frontend on Netlify and backend on Render with environment-based configuration and CI-friendly builds.

**Full Stack Developer — HandyHub (Q&A Platform)**

Summer 2025

[holychandyhub.netlify.app](https://holychandyhub.netlify.app) — React, TypeScript, Supabase, Tailwind

- Built a community-driven Q&A platform with authentication, private routes, voting, rewards, and threaded discussions.
- Implemented search, sorting, filtering, and responsive UI patterns supporting **50K+ monthly active users**.
- Handled Supabase auth flows, session persistence, and relational data modeling for posts, answers, and user profiles.

**Frontend Engineer — Seven Lines Corporate Website**

Fall 2025

[7linesinc.com](https://7linesinc.com) — Next.js, TypeScript, Tailwind CSS

- Developed a modern, responsive corporate website using Next.js App Router with mobile-first layout and optimized asset loading.
- Integrated production email forms, environment-based configs, and static optimization for fast page loads.
- Improved navigation clarity and visual hierarchy to support lead generation and client engagement.

## Machine Learning Engineer — Brain Tumor Detection (YOLOv8)

Fall 2025

*GitHub: UNET-vs-YOLO-Brain-Tumor-Detection-ML — Python, PyTorch, YOLOv8, Data Pipelines*

- Diagnosed dataset-label mismatch in a medical imaging task and reframed semantic segmentation into a bounding-box detection problem for correctness.
- Built a fully reproducible training and inference pipeline (COCO↔YOLO converters, evaluation scripts, visual diagnostics).
- Achieved **mAP@50 = 0.905**, **IoU = 0.73**, and **0.91 pixel accuracy** using YOLOv8 on Apple Silicon (MPS backend).

## Data Scientist — Geospatial & Transactional Revenue Analytics

Fall 2025

*GitHub: geospatial\_clustering\_seasonal\_analysis — Python, SQL, Pandas, GeoPandas, Time-Series Analysis*

- Built an end-to-end analytics pipeline converting raw QuickBooks exports into normalized relational tables for ML analysis.
- Recovered customer geolocation with multi-stage resolution, achieving **65% high-confidence coverage**; validated clustering via Hopkins statistic and derived **6 sales territories** capturing **75% of revenue**.
- Performed seasonal decomposition of invoice frequency vs. value to identify demand cycles and baseline revenue behavior.

## ML Engineer — Machine Learning From Scratch

Fall 2025

*GitHub: machine-learning-clustering — NumPy, Statistical Learning, Optimization*

- Implemented KNN, logistic regression, and neural networks from first principles with manual cross-validation and regularization.
- Produced reproducible experiments and evaluation artifacts for direct model comparison and review.

## Data Scientist — Housing Price Drivers (Team Lead)

Spring 2025

*GitHub: houses-schools-crimes — Python, Scikit-learn, Statistical Modeling*

- Led a 6-person team analyzing **30K+ records** across housing, crime, and education datasets to identify price drivers.
- Built and tuned Random Forest, Logistic Regression, and KNN models achieving **95% F1-score** for price-category prediction.