

# Mohamed Abdelmalek

Tampa, FL | (727) 203-1575 | E-mail | LinkedIn | GitHub | Portfolio

## SUMMARY

Full-Stack Software Engineer skilled in Java, Python and modern JavaScript frameworks (React, Next.js) for building scalable web applications. Experienced in RESTful APIs, automation, debugging, and CI/CD to deliver reliable, maintainable solutions.

## EDUCATION

- University of South Florida — **B.S. in Computer Engineering** Graduated: Dec 2023
- **Relevant Coursework:** Algorithms, Data Structures, Software Development, Operating Systems, Computer Networks

## WORK EXPERIENCE

**Full-Stack Developer** (*Freelance – Gigi Car Inc.*) – Holiday, FL Jul 2024 – Present

- Developed a full-stack vehicle inventory system (*Java, Spring Boot, MySQL*) to add, edit, and track cars in real time.
- Built REST-style APIs and backend logic to manage vehicle listings, pricing, and availability.
- Implemented secure CRUD operations to reduce manual entry errors and improve data consistency.
- Configured GitHub Actions for version control and automated testing, ensuring reliable feature updates.
- Collaborated with dealership staff to refine requirements, enhance usability, and streamline daily operations.

**Software Systems Analyst** (*A.R.A – Best Buy Co., Inc.*) – Spring Hill, FL May 2021 – Present

- Built a Python system to flag overdue service tags, generate follow-up lists, and log communications.
- Developed PowerShell scripts to automate routine workflows, validate configurations, and monitor system performance.
- Generated daily analytical reports to visualize repair trends, turnaround performance, and optimize team productivity.
- Queried and validated account/order data with SQL, ensuring consistency across systems.
- Debugged 1,000+ software defects annually in distributed environments using root-cause analysis.
- Mentored new hires, improving onboarding efficiency by 30%.

## TECHNICAL SKILLS

- **Languages & Frameworks:** Java, Python, JavaScript (React, Node.js, Redux), HTML5, CSS3, Flask
- **Databases:** MySQL, PostgreSQL
- **Systems & Architecture:** Software Architecture, RESTful APIs, Microservices
- **Cloud & Containers:** AWS (EC2, S3), Docker
- **DevOps Tools:** GitHub Actions, Git, GitLab, Postman, VS Code
- **Development Practices:** Test-Driven Development (JUnit, PyTest), CI/CD, OWASP Top 10 awareness, Agile/Scrum

## PROJECTS

**Capstone Project** (Supervised by *JP Morgan & Chase Co. Software Team*) / Python, OCR [GitHub](#) Aug – Dec 2023

- Trained a CNN model using TensorFlow to detect fraudulent checks, achieving 95% F1-score (high precision & recall).
- Constructed an end-to-end pipeline from image preprocessing to evaluation in Google Colab.
- Applied distributed data handling techniques, hyperparameter tuning, and cross-validation.

**Retail Match – Content-Based Recommender System** | Python, Flask, scikit-learn, Pandas [GitHub](#) Jun – Aug 2025

- Implemented a Flask API with real-time recommendations using TF-IDF + cosine similarity.
- Integrated a React/Redux UI for interactive category selection and product displays.
- Engineered scalable API design to support high-availability recommendations.

**Community Hackathon Event Platform – Full Stack Web App** | HTML, CSS, JS, Flask [GitHub](#) Feb – May 2025

- Designed a responsive browser-side client with RSVP form, localStorage, and event handling.
- Built a Flask backend for data management with REST endpoints.
- Improved UX with persistent state handling and secure form processing.

## CERTIFICATIONS

- Technical Interview Prep (Advanced) CodePath • Spring 2025
- Web Development (Intermediate) CodePath • Spring 202