Mostafa Shahrabadi

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TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Python, C++, C, Swift, PHP

Machine Learning & Data Analytics: TensorFlow, Scikit-Learn, OpenCV, Pandas, NumPy, Matplotlib

Cloud & DevOps: AWS (ECS, Fargate, DynamoDB, S3, Cognito), Docker, CI/CD, Git

Web Development: Node.js, Express.js, React, Next.js, Angular, React Native, HTML/CSS, Bootstrap, Tailwind CSS, RESTful APIs, Microservices

Databases: DB2, SQL, PostgreSQL, Oracle SQL Developer, MongoDB, Supabase, Firebase

QA & Testing: Selenium, Jest, Postman, TDD, BDD, Gherkin Scripts, Hurl

Systems & Networking: Unix/Linux Programming, TCP/UDP, Shell Scripting (Bash), IPC

EXPERIENCES

Web Developer Intern: Questrade Financial Group, Toronto, September 2024 – December 2024

- Owned the end-to-end implementation of advertisement systems for the Zolo Housing Platform, from design through launch, enabling ad delivery to 2.2M monthly visitors
- Partnered with 4 cross-functional teams to enhance corporate websites and configure event tracking

Project Engineer: Aldani Master Group, Toronto, June 2022 – November 2022

- Coordinated with engineers, ensuring layout designs meet regulatory standards, reducing rework by 10%
- Identified plan-documentation discrepancies, mitigating risks and supporting 230+ project staff

Frontend Web Developer: Luna Group, UAE, August 2020 – March 2022

- Designed and implemented web application (https://www.lunagp.ir/) with 3rd-party software integrations
- Optimized performance and resolved cross-browser issues, reducing page load times by 0.8 seconds

PROJECTS

Cat & Dog Image Classifier | Python, TensorFlow, Keras, OpenCV, CNN, Scikit-Learn

- Built an end-to-end image classification pipeline (data preprocessing → model inference) with real-time prediction, experimenting with KNN, Logistic Regression, SGD, and CNN approaches.
- Designed a custom CNN with data augmentation, achieving 85%+ accuracy on the test dataset and outperforming baseline ML models.

CloudDocs | AWS (DynamoDB, S3, Cognito, ECS), Docker, Jest, Sharp, OIDC, Node.js, Express.js, React, Next.js

- Built full-stack microservice for managing text and image fragments with secure AWS Cognito authentication, supporting up to ~40M users
- Deployed scalable AWS architecture using DynamoDB, S3, and ECS/Fargate with Docker container, ensuring reliable handling of thousands of simultaneous requests
- Achieved 90%+ test coverage using Jest unit tests, Hurl integration tests, and local DynamoDB/S3 testing

EDUCATION

Advanced Diploma – Computer Programming & Analysis: Seneca Polytechnic, January 2023 – August 2025

Master of Science – Engineering: University of Birmingham (UK): September 2014 – July 2016