

MOHAMED EL AMINE ATIL

Software Engineer

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ABOUT ME

A results-driven Software Engineer with deep expertise in scalable systems, full-stack development, and high-performance runtime design. At Skipper Digits, I built a self-hosted, multi-tenant ERPNext SaaS using Docker Swarm, Traefik, and Dokploy, featuring LLM-powered mobile integration. On Mostaq, I architected a 120-server infrastructure designed to serve 500,000+ daily visitors across templated PHP/WordPress websites using Docker Swarm and a custom management dashboard. I'm also the creator of Izem, a blazing-fast JavaScript/TypeScript runtime capable of handling over 100,000 requests per second—outperforming Bun in key benchmarks. Passionate about clean code, open source, and building systems that scale.

EXPERIENCE

Full-Stack Engineer

Skipper Digits

October 2024 – Ongoing Remote

@ <https://www.skipperdigit.com>

- Architected and deployed a self-hosted SaaS version of ERPNext using Docker Swarm, Traefik, and Dokploy, enabling multi-tenant support and seamless scaling.
- Designed and implemented custom server-side and client-side enhancements for ERPNext and Frappe, including tailored reports, workflows, and advanced customizations.
- Developed and launched a React Native mobile application for ERPNext, featuring LLM-powered voice commands, RAG-based functionality, offline support, and improved user accessibility.

Software Developer

Mostaq

March 2021 – May 2024 Remote

@ <https://mostaq.com/u/atilamine>

- Designed and maintained a high-availability infrastructure of 120 servers using Docker Swarm to serve templated PHP/WordPress websites handling over 500,000 daily visitors.
- Proficient in creating responsive websites that are optimized for mobile devices
- Experienced in integrating third-party APIs into websites such as social media logins etc
- Creating browser extensions that can automate tasks and integrating third-party APIs
- Created RESTful APIs with Node.js and Express for scalable backend services consumed by frontend and mobile clients.
- Automated large-scale web scraping tasks using Selenium and Python, streamlining data acquisition for client projects.
- Delivered Android apps using Java and the Android SDK, with a focus on usability and performance.
- Proficient in identifying and resolving software bugs and errors

MOST PROUD OF



Collaborating on NASA/Puma

I am most proud of my collaboration on NASA/Puma repository with bug founding and fixing, which was successfully merged



Published Master's Research

I achieved the publication of my master's degree research as an article in a Springer journal within a remarkable span of 3.5 months

STRENGTHS

Java JavaScript Python PHP
MongoDB Bash Typescript Kotlin
C SQL HTML5 CSS3 Dart Nim

Node.js Express React Next.js
Tailwind CSS Redux Prisma Firebase
Chrome Extensions Selenium Socket.IO
PeerJS WebRTC Linux Docker
Docker Compose Android Development
Docker Swarm Machine Learning JWT
Scikit-Learn Pytorch Git MVVM
Jest Flutter Redis GraphQL Laravel
React Native ERPNext Supabase

LANGUAGES

Arabic
English
French



EDUCATION

M.S. in Complex Software Engineering

Badji Mokhtar University

Sept 2021 – June 2023

B.S. in Computer Systems

Badji Mokhtar University

Sept 2018 – June 2021

Java Developer

Upwork

📅 January 2021 – March 2021 📍 Remote

@ <https://www.upwork.com/freelancers/~01586a9aa6c8afded5>

- Successfully completed a Java project to take JSON response from SmartyStreets API and ingest into Postgres
- Skilled in writing SQL queries, stored procedures, triggers, functions, and views for Postgres database

OPEN-SOURCE PROJECTS

🐙 Protein2SMILES Transformer

@ <https://github.com/AtilMohAmine/protein2smiles-Transformer>

- De novo drug discovery of protein-specific using Transformer Neural Network

🐙 QSAR Bioactivity Predictor

@ <https://github.com/AtilMohAmine/QSAR-Bioactivity-Predictor>

- QSAR Bioactivity Predictor is a Python application that allows users to create QSAR models to predict bioactivity for a specific target.

🐙 Izem

@ <https://github.com/AtilMohAmine/izem>

- Izem is a blazing fast JS/TS runtime built with Nim 2 and JavaScriptCore.

🐙 Chat App

@ <https://github.com/AtilMohAmine/Chat-App>

- A real-time chat application built with Express.js, Socket.io, React, MongoDB, and JWT authentication.

🐙 Next.js Commerce

@ <https://github.com/AtilMohAmine/nextjs-commerce>

- An E-Commerce App using Next.js 13, App Router, TailwindCSS, Prisma, and MongoDB.

🐙 Next AI Chat

@ <https://github.com/AtilMohAmine/next-ai-chat>

- A Next.js AI chat app with personalities, using LangChain for user-AI conversations

🐙 DNA-Based Data Encryption Using Vigenere Cipher

@ https://github.com/AtilMohAmine/DNA_Vigenere_Cipher

- Encryption and decryption data using Vigenere Cipher algorithm implemented in JAVA

🐙 Stock Market Monitoring App

@ <https://github.com/AtilMohAmine/stock...>

- Stock market app with realtime data using Laravel, GraphQL and Redis

🐙 Corona Map Tracker

@ <https://github.com/AtilMohAmine/Corona>

- Corona Map Tracker is an Android app designed to track Coronavirus-affected areas and user itineraries

GIT COLLABORATIONS

🐙 Nasa/Puma

@ <https://github.com/nasa/puma/pull/10>

- ✓ Fixing issue 9 AttributeError: module 'numpy' has no attribute 'int'

MOBILE APPLICATIONS

🤖 Fitness Tracker

@ <https://github.com/AtilMohAmine/Fitness-Tracker>

- Fitness Tracking application built for Android with Google Fit API using Kotlin and the MVVM architecture.

🤖 The Holy Quran

@ <https://play.google.com/store/apps/details?id=com.atilmohamedamine.quran>

- The Holy Quran by the voice of Saad Al-Ghamdi, facilitating easy reading and memorization of verses. Additionally, it includes an English translation.

PUBLICATIONS

📄 Journal Articles

- A. F. Atil Mohamed El Amine, "Transformer neural network for protein-specific drug discovery and validation using qsar," *Journal of Proteins and Proteomics*, 2023. DOI: 10.1007/s42485-023-00124-6.

CERTIFICATIONS

Machine Learning with Python

freeCodeCamp

📅 april 2023

- <https://www.freecodecamp.org/certification/atilmohamine/machine-learning-with-python-v7>