

Zahra Karandish

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• [LinkedIn](#) • [GitHub](#) • [Portfolio](#)

TECHNICAL SKILLS

Programming Languages: Java, Python, Shell Scripting, C#, C++, JavaScript.

Software/Platforms: React, Node.js (Express.js), Django, Flask, Ubuntu.

DevOps & CI/CD: Docker, GitHub Actions, CI/CD Pipelines, Shell Scripting.

API Development: REST APIs, GraphQL, Google APIs, GPT API, WebSockets, Socket.io.

Databases: MongoDB, Impala, SQL databases (e.g. MySQL, PostgreSQL), DBeaver.

Data Processing and Analysis: Pandas, Dask, Torch (PyTorch), NumPy, TF-IDF, Sentence Transformers.

Big Data Technologies: Hive, Hadoop.

EXPERIENCE

Python Full Stack Developer | Stealth Startup | Montreal, QC

September 2024 – December 2024

- Designed and implemented a new database on Impala using DBeaver to process and store structured data extracted from XML files.
- Utilized Pandas DataFrame and Dask to process and analyze large datasets efficiently.
- Developed and integrated REST APIs in Django and Node.js to enable seamless data communication between components and support dynamic data workflows.
- Implemented CI/CD pipelines using GitHub Actions, automating deployments and improving development efficiency.
- Managed DevOps tasks, including containerizing applications with Docker and monitoring logs for performance issues.
- Automated workflows using shell scripting in Ubuntu and designed robust SQL queries to maintain database integrity and scalability.

Artificial Intelligence Developer Intern | Stealth Startup | Montreal, QC

May 2024 – September 2024

- Responsible for building the entire backend for an AI Automation chat interface and leveraged Django and Node.js for scalable deployment.
- Implemented a custom LLM-based intent detection system, using GPT API to understand user queries and automate responses. Contributed to the acquisition of the startup's first two customers by delivering an effective LLM-powered AI solution.
- Worked with LLamaIndex, Langchain, and Workflow engine modeling to enhance automation processes.

Software Developer Intern | Noorano | Tehran, Iran

November 2013 - March 2014

- Identified and resolved over 12 bugs in the Java codebase to enhance overall software quality, using strong problem-solving and debugging abilities.
- Utilized GitHub as the primary version control system, effectively managing code, tracking changes, and facilitating adherence to a structured agile development process.
- Engaged in code reviews, providing suggestions to team members, resulting in improved code quality.

PERSONAL PROJECTS

Online Shop Web Application – Node.js

2025

- Developed an e-commerce platform with server-side rendering (SSR) using EJS and a Node.js backend to handle product listings, orders, and authentication.
- Designed a hybrid database system primarily using MongoDB (Mongoose), ensuring structured and flexible data management.
- Implemented authentication and authorization with JWT, managing user sessions.
- Utilized WebSockets and Socket.io for real-time order tracking.
- Added secure payment processing through third-party payment gateways, ensuring transactional integrity.
- Built a robust validation and error-handling system to enhance reliability and user experience.
- Deployed and optimized the application on Heroku, ensuring scalability, high availability, and performance in a cloud environment.

Social Media Platform – Node.js | React

2025

- Developed a full-stack social media platform using React for the frontend and Node.js (Express.js) for the backend to handle user authentication, post creation, and interaction features.
- Implemented both REST APIs and GraphQL to support flexible data fetching and optimized API performance.
- Used MongoDB for the database, ensuring efficient and flexible data storage.
- Integrated authentication and authorization with JWT, allowing secure user sign-up, login, and access control.
- Built a responsive and interactive frontend using React, enabling users to create, edit, delete, and like posts in real-time.
- Wrote unit tests using Mocha, ensuring backend routes and API endpoints function as expected, improving code quality and maintainability.

SchedMaster Web Application – C# | JavaScript

2023

- Collaborated with a team of 2 and developed a fully functional web application with a dynamic **Javascript-based** front-end.
- Utilized ASP.NET MVC with Entity Framework (DB First Approach) for backend operations.
- Designed and managed a relational database to store back-end application state.
- Earned recognition from the teacher for delivering the best project among 20 students, excelling in database design, backend and frontend design, and data flow.

FlushFind Mobile Application – Android | Java

2023

- Developed an Android application enabling users to locate and navigate to nearby selected public washrooms.
- Implemented Google API for location services and navigation.
- Utilized Firebase database for real-time data storage and synchronization.
- Followed agile methodologies throughout the development process.

EDUCATION

DEC in Computer Science | Lasalle College | Montreal, Canada | **2024**

M.A in Philosophy | Boğaziçi University | Istanbul, Turkey | **2019**

M.A in Philosophy | University of Tehran| Tehran, Iran | **2013**