Mohammad Choupan

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Profile

Graduated from Amirkabir University of Technology with a degree in Computer Engineering. Full-stack developer with over 5 years of experience, skilled at building web applications from the ground up. Proficient in agile methodologies and comfortable working in fast-paced environments.

Work Experience

July 2025 – March 2025
AI Engineer *Behavior Understanding*, Tehran, Iran
- Designed a large language model (LLM) to analyze government behavior based on their activity across social networks and news sources.

July 2025 – March 2025
AI Engineer *Profile Mapping*, Tehran, Iran
- Mapped different social media profiles belonging to the same individual and extracted comprehensive personal data.

November 2024 – March 2025
Software Engineer *Opensecurity*, Remote
- Opensecurity was a US-based startup. I worked as a full-stack software engineer, designing and developing various components of the platform. Repo
  - Developed a chatbot to generate SQL queries from natural language in under 5 seconds.
  - Built a web UI based on Amazon Cloudscape.
  - Packaged the platform as a Helm chart for modular, production-ready Kubernetes deployment, reducing installation time to under 2 minutes.
  - Enhanced Steampipe to support offline SQL querying on cached data with 500+ tables.
  - Led the development of 15+ plugins and their corresponding "describers" for GitHub, Kubernetes, AWS, Azure, GCP, and Linode.
  - Published an open-source tool with 600+ stars on GitHub.

March 2024 – November 2024
Front-end Team Lead *Goldiran asayesh*, Tehran, Iran
- Goldiran Asayesh is a company that provides insurance services. I am responsible for leading a team of three front-end developers to create a new website for the company and manage existing websites, such as Goldiran Asayesh, Kardoon and Inzi. Additionally, I handled DevOps tasks, including writing CI/CD in gitlab, Docker, and web server management.

February 2021 – Present
Freelancing as a Full-stack Developer *Tehran, Iran*
- **Designed and developed the Inventory Gap Analysis System for World Help Organization (WHO).**
  - Worked as a full-stack developer using ReactJS and Django.
  - Developed a mobile app Inventory and Gap Analysis with React Native, published on the App Store.
  - Designed and validated analysis workflows for vaccine stock data in over 13 countries, including Ukraine, Azerbaijan, the Philippines, and more.
  - Implemented load balancing to handle traffic for all countries on a single server.
- **Designed and developed Cloud Drive.**
  - Designed a simple cloud drive for personal use by the company.
- **Designed and developed Baham store online shop website.**
  - Designed a complicated shop for Baham store. Iran's biggest apple store. Website
- **POD app**
  - Pod App is a petroleum marketplace where users can buy and sell petroleum products. I am responsible for developing both the website and the admin Panel app for this project using ReactJS and Django. The app is currently still under development. Website
- **LandoLet**
  - LandoLet is a mobile app for renting an apartment in uk, I'm using Django-DRF to develop the back end of this mobile app repo

April 2023 – June 2024
Point Cloud Classification *Tehran, Iran*
- Finding the best way to classify point cloud data with the highest accuracy.

April 2023 – June 2024
Evaluation of positioning error in self-driving cars using map matching methods
Tehran, Iran
- Finding Object cause error in NDT matching algorithm.Use Neural Networks to find object can cause error and objects can reduce the error.

Technical Skills

Programming Languages: *Python, Bash, JavaScript*

Tools/Frameworks: *React, Django, Docker, Kubernetes, Helm, CI/CD*

Other: *Git, LaTeX, Linux*

Education

2020 – 2024   **Bachelor's Degree** *Amirkabir University of Technology, Tehran, Iran*, Computer Engineering
- GPA: 3.7/4
- GPA Over the Last Two Years: 3.83/4

References, further information, and proofs are available upon request