

Proficient full-stack developer with experience in modern frameworks such as Next.js, Angular, Express.js and Django. Adept at building fault-tolerant and scalable web applications with practical expertise in AWS and its services.

EDUCATION

- University of Calgary

Calgary, CA
- Master of Science in Computer Science; GPA: 3.85/4

Aug 2021 – Dec 2024
- University of AmirKabir

Tehran, IR
- Bachelor in Computer Engineering; GPA: 3.5/4

Sep 2016 – Sep 2020

EXPERIENCE

- Full-Stack Developer (Internship)

Calgary, CA
- Wedge Networks

Sep 2023 – Jul 2024
- Designed and implemented a Java component to handle concurrent inference requests using a queuing system, where requests were fetched from MongoDB.
 - Resolved several critical bugs in the Angular front end, directly enhancing user interface responsiveness and improving overall customer satisfaction.
 - Designed and implemented a Bash-based log generator capable of producing various types of logs at specified frequencies (e.g., every second) for testing purposes, with the logs stored in Elasticsearch for efficient indexing and analysis.
- Research Assistant

Tehran, IR
- ATLAS lab

Feb 2020 - Aug 2020
- Designed and implemented a web crawler in Java to extract specific information from multiple websites and store the data in a PostgreSQL database.

PROJECTS

- BrowseMind (Website)

GitHub Link
- A full-stack web analytics platform combining a browser extension, Django backend, and Next.js frontend.
 - AI-driven categorization of user browsing time across 25+ website categories, leveraging Llama 4 for accurate classification.
- FindConnections (Website)

GitHub Link
- A Next.js website that uncovers connections between notable individuals through shared photographs.
 - Integrated Neo4j for graph data management in Amazon EC2 and utilized Amazon S3 for efficient image data storage and retrieval.
 - Lambda-based pipeline that allows admin users to automatically populate the dataset with new celebrity pair images.

SKILLS

- Languages: Python, C, C++, Java, CSS, HTML, JavaScript, TypeScript
- Databases: MySQL, PostgreSQL, MongoDB, Neo4j, DynamoDB
- Frameworks: Next.js, Angular, Express.js

CERTIFICATES

- **Next.js 15 & React - The Complete Guide:** Comprehensive guide on how to build full-stack React apps with NextJS 15

PUBLICATIONS

- **Esmailian, S., Dolati, M., Sadrhaghighi, S. and Ghaderi, M., 2024, October. Coordinated Sampling in SDNs with Dynamic Flow Rates. In 2024 20th International Conference on Network and Service Management (CNSM) (pp. 1-7). IEEE.**