

# Soroosh Esmaeilian

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Address: Calgary - Open to relocation

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Proficient backend developer experienced with modern frameworks including Django and Express.js. Proven track record of using AWS services such as Lambda, Step Functions, S3, and EC2. Strong foundation in computer networks with both academic research and industry experience.

## EXPERIENCE

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### • Full-Stack Developer

*Bowrand Inc. (Next.js + Express.js)*

Calgary, CA

May 2025 - Now

- Developed and tested server-less architecture for event booking in Syncolink.net using AWS **step functions** and **lambda (Python)**.
- Developed and designed Syncolink.net dashboard, an AI based **SaaS** with **subscription (Stripe)** + **usage based** model for voice AI assistant.
- Integrated **Stripe Connect (Express)** for Bowrand platform, enabling secure onboarding and payment processing for customers. (Shahtire.com, Hairsforme.com)

### • Full-Stack Developer (Internship)

*Wedge Networks*

Calgary, CA

Sep 2023 - Jul 2024

- Contributed to the reasearch, system design and development of EdgeInsight, an **LSTM-based anomaly detection** model designed developed with **flask** for deployment on Litmus Edge, an IoT gateway trusted by over **100 companies**.
- Designed and implemented a Java components to handle **concurrent** IoT sensor inference requests using a queuing system + **RabbitMQ** for live sensor data.

### • Full-Stack Developer

*ATLAS lab*

Tehran, IR

Feb 2020 - Aug 2020

- Developed a Java-based web crawler and integrated its data into an open-source security web application with a Django backend.

### • Machine Learning Research Assistant

*Institute For Research In Fundamental Sciences (IPM)*

Tehran, IR

Sep 2018 - Jul 2021

- Participated in two competitions centered on brain signals and received awards for outstanding performance.
- Classified brain activity levels using FNIRS data with machine learning algorithms.
- Classified SSVEP signals in EEG data using machine learning algorithms.

## PROJECTS

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### • BrowseMind (Website)

GitHub Link

- A chrome extension + **Django** backend project that helps you understand your online behavior by summarization and visualization. (Percentage of time spent on news, sports, etc.).
- Summarization of user browsing activity using a LLaMA-based (**RAG**) model.

### • FindConnections (Website)

GitHub Link

- A Next.js website that uncovers connections between notable individuals through shared photographs.
- **Lambda-based** pipeline that allows admin users to automatically populate the dataset with new celebrity pair images.

## SKILLS

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- **Languages:** Python, JavaScript, TypeScript, CSS, HTML, C, C++, Java
- **Databases:** MySQL, PostgreSQL, MongoDB, Neo4j, DynamoDB
- **Frameworks:** Django, Express.js, flask, Next.js
- **DevOps & Cloud:** Docker, AWS EC2/S3/Lambda, Nginx, GitLab CI/CD

## EDUCATION

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- **Master of Science in Computer Science, Major in Computer Networks** Calgary, CA  
*Networked Systems and Applications Lab, University of Calgary* *Aug 2021 - Dec 2024*
  - Designed a network-wide sampling system in SDNs implementable in Datacenters and ISPs using ns-3 (C++).
  - Achieved up to 10% improvement compared to state-of-the-art sampling solutions. (Visit Publication)
- **Bachelor of Computer Engineering** Tehran, IR  
*University of AmirKabir* *Sep 2016 – Sep 2020*