

# Ali Nakhaeisharif

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## About

With 5+ years of experience as a software engineer, I've worked in agile teams, building applications serving over 10 million users. I possess deep knowledge of algorithm design and expertise in writing clean, maintainable code. Additionally, I've developed reliable cloud-based microservices, focusing on scalability and performance.

## Skills

**Programming:** Java, Javascript, Python, C++, UNIX Scripting  
**Frameworks:** Spring Boot, Angular, React.js, JUnit, Mockito, Apache Spark  
**Databases:** PostgreSQL, Oracle, MS-SQL, Hibernate ORM, Redis  
**Technologies:** Docker, AWS, OpenShift, OpenStack, CI/CD, Kafka, Jenkins, Prometheus, gRPC  
**Soft Skills:** Teamwork, Problem-solving, Quick-learner, Agile Programming

## Experience

### Fullstack Software Engineer

Aug 2021 – Feb 2025

[Neshan Maps & Navigator](#) 

(3 years, 7 months)

Neshan is the leading local maps and navigation app, chosen 5 times as the best navigation app of the year.

- **Promoted** to an Assistant Team Lead within one year due to outstanding project maintenance skills.
- **Assisted** the company in scaling up from an startup to a leading local navigation app with 10M+ users.
- **Reduced** memory usage by up to 40% by rewriting heavy components in C++, integrated by JNI.
- **Designed** a live algorithm that detects traffic pattern similarities in real-time.
- Deployed a model predicting optimal departure time for a given arrival time and route, with 85% accuracy.
- Developed multiple React.js panels with advanced geometrical tools, enhancing our issue tracking accuracy.
- Authored and unit-tested 80% of codebase using JUnit, and Mockito.
- Optimized large-scale geographic data to reduce traffic computation time and improve ETA accuracy.
- Implemented system health monitoring with Prometheus and Grafana for 100% uptime.

### Front-end Software Engineer

Oct 2020 – Sep 2021

[Smart Construction Group](#) 

(1 year)

Smart Construction automates workflows and streamlines worker-manager communication in construction projects.

- **Led** the development of a React Native app used by 500+ construction workers to submit daily progress.
- Implemented user-friendly components to enhance usability, getting over 90% user satisfaction.
- Programmed +50 React Native components, reusable in React.js, to solidify the front-end system.

### Back-end Software Engineer

May 2020 – Aug 2020

[Part Software Group](#) 

(4 months)

Part Software Group is a dynamic financial-tech company providing intelligent economic solutions for its clients.

- Deployed a social media REST API using Express.js and PostgreSQL during a selective internship program.

## Education

### University of Windsor

Sep 2023 – May 2025

*M.Sc. in Computer Science - Thesis Based* (GPA: 3.61/4, ranked top 15%)

- **Thesis Title:** “Guarding Polygons With Mutually Visible  $\pi$ -Guards”
- As a research assistant, I published my thesis in **CCCG 2025**, while studying other geometrical problems.

### Ferdowsi University of Mashhad

Sep 2018 – Feb 2023

*B.Sc. in Computer Engineering* (GPA: 3.66/4, ranked top 10%)

- **Project Title:** “An OSRM-based Routing Engine for Optimizing Fuel Consumption”