










Sina Niyavarzi Software Developer

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 Apr 1989  LinkedIn  GitHub  Homepage  X



Experienced software developer with over 7 years in fintech, logistics, and IoT, specializing in secure, high-performance web applications, backend APIs, and data-driven solutions. Proven success in developing scalable software systems, optimizing performance, and collaborating across teams to deliver impactful projects.

PROFESSIONAL EXPERIENCE

Fullstack Software Developer, Middle East Bank

Jul 2022 – Oct 2024 | Tehran, Iran

- **Mobile banking PWA:** Engineered an efficient Progressive Web App (PWA) for mobile banking featuring robust user experience enhancements; integrated multilingual capabilities alongside a personalized finance dashboard utilized daily by thousands of users across the region.
- **Admin panel for promotions:** Designed and implemented an intuitive server-side rendering solution for the promotion management system, achieving completion within four weeks while enhancing team coordination and promoting significant operational agility.
- **Cryptocurrency price monitoring system:** Developed an automated web scraping solution for daily cryptocurrency price tracking, enabling real-time monitoring and data-driven insights.
- **Landing page for digital finance team:** Designed a responsive, SEO-optimized landing page for the digital finance team, achieving 2nd place in Google search ranking.
- **SSO Development:** Optimized authentication and performance by developing a secure, user-friendly Single Sign-On (SSO) system, increasing client bundle loading speed by 200% with lazy loading and chunking, while also providing documentation and training for internal teams.

Fullstack Software Developer, Atashyar

Nov 2020 – Jun 2022 | Tehran, Iran

- **Blasting modeling:** Crafted a cross-platform application for mathematical modeling with interactive charts and visualizations, enhancing user experience with intuitive data representation and analysis tools.

Backend Developer, XROBOX

Jan 2017 – Oct 2020 | Tehran, Iran

- **IoT newborn health monitor:** Enhanced newborn health monitoring by refining an IoT device to provide real-time data updates in 10-second intervals, ensuring timely and accurate health tracking.
- **Train wagon data web crawler:** Improved logistics for 32,000 train wagons by developing a web crawler with data updates in 8-hour intervals, establishing a dashboard for comprehensive insights, and integrating a Telegram bot for automated Excel report delivery, enhancing efficiency and profitability.

TECHNICAL SKILLS

Programming Languages

- Python, TypeScript, JavaScript, Java

Backend Development

- **Frameworks and Libraries:** Django, Django REST Framework, Flask, FastAPI, Node.js, Express
- **Task Processing and Messaging:** Celery, RabbitMQ, MQTT
- **ORMs:** Prisma, Mongoose
- **Caching and Data Streaming:** Redis
- **Testing and documentation:** Pytest, Jest, OpenAPI, Swagger

Databases

- **Relational Databases:** PostgreSQL (+Timescale), MySQL, Sqlite
- **NoSQL Databases:** MongoDB

Software Development Practices and Methodologies

- TDD (Test-Driven Development), Scrum, Agile, OOP, Microservices, Clean Code

Frontend Development

- **Frameworks and Libraries:** React, Next.js, Astro, Vite, Tanstack Query
- **Rendering Techniques:** SSR (Server-Side Rendering), SSG (Static Site Generation)
- **State Management:** Redux (RTK, RTK Query)
- **Validation:** Zod, Yup
- **UI and Styling:** TailwindCSS, SASS/SCSS, Mantine, MUI
- **Testing and Documentation:** Storybook, Playwright, Vitest

Desktop Development

- QT (PyQt, QML)

Data Science and Analysis

- Matplotlib, Pandas, Numpy

DevOps and Cloud

- Docker (+Compose), CI/CD, GitHub Actions, AWS

EDUCATION

M.Sc. in Digital Transformation Management,

SRH University

- Digital Business Analytics, Machine Learning, Innovation Management

present | Hamburg, Germany

Master of Business Administration (MBA),

Kharazmi University

- Decision-making for Managers, Data Mining, Mathematical Modelling

Feb 2019 | Tehran, Iran

B.Sc. in Electrical Engineering,

Sharif University of Technology

- C++, MATLAB, Logical Circuits, Digital Signal Processing, Control Systems

Sep 2014 | Tehran, Iran

PROJECTS

Event Board

Mar 2017

- Developed a web application to help more than 10,000 students discover and track upcoming events at the university, with search, sort, and categorization features.

Cafe Finder

Feb 2017

- Crafted a database to help users locate about 100 cafes based on rating, price, and distance, optimizing search latency and enhancing user satisfaction.

COURSES AND CERTIFICATES

AWS Cloud Technical Essentials

- Amazon Web Services [↗](#)

Terraform for Absolute Beginners

- Coursera [↗](#)

Learning How to Learn

- Coursera [↗](#)

Mathematics for Computer Science

- Coursera [↗](#)

Easy to Advanced Data Structures

- Udemmy [↗](#)

Introduction to Machine Learning

- Coursera

Java/Android Bootcamp

- Maktab Sharif

Introduction to Containers with Docker, Kubernetes and OpenShift

- IBM [↗](#)

Linear Algebra for Machine Learning and Data Science

- DeepLearning.AI [↗](#)

Introduction to Algorithms

- Coursera [↗](#)

Introduction to Networking for Complete Beginners

- Udemmy

Product Management Bootcamp

- Cafe Bazar

Programming with C/C++

- Amirkabir University of Technology

LANGUAGES

English: C1 (IELTS 7.5) • **German:** B1 • **Persian:** Native

SOFT SKILLS

Collaborative

Worked closely with cross-functional teams to develop software solutions, improve system performance, and align with business needs.

Precision-focused

Committed to code quality, thorough documentation, and rigorous testing, ensuring reliable and maintainable solutions.

Analytical Thinker

Skilled in breaking down complex issues and implementing effective solutions in high-stakes environments.

Continuous Learner

Committed to staying current with industry trends and continuously improving technical and professional skills.

