

Mohammad Jalili

Software Engineer | Lincoln, NE, United States

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PROFESSIONAL SUMMARY

Software Engineer with an M.S. in Computer Science, experienced in building scalable software systems using Python and Java, including LLM-based solutions.

EDUCATION

Master of Science in Computer Science | Jan 2024 - Dec 2025

University of Nebraska-Lincoln, NE, United States

Bachelor of Science in Computer Engineering | Sep 2016 - Sep 2020

K. N. Toosi University of Technology, Tehran, Iran

WORK EXPERIENCE

Software Engineer, University of Nebraska-Lincoln, Jan 2024-Dec 2025 | NE, United States

- Built Python and Java services that analyze and classify software vulnerabilities using LLM-based pipelines, processing hundreds of CVE/CWE records to support automated security analysis.
- Designed and implemented data pipelines to ingest, normalize, and evaluate CVE, CWE, and CVSS datasets, enabling reliable model reasoning over large-scale security data.
- Developed automated evaluation and testing workflows to measure model accuracy and consistency, improving the reliability of vulnerability classification outputs.
- Integrated prompt engineering and model fine-tuning into production-style workflows, balancing performance, cost, and latency for applied software engineering use cases.

Software Engineer, Arzyaban Salamat Pars Co., Apr 2022-Jul 2022 | Tehran, Iran

- Designed and developed a production internal web application, implementing backend services, data models, and APIs to support day-to-day operational workflows.
- Built backend components using ASP.NET and relational databases, collaborating with cross-functional teams to deliver features on schedule.
- Contributed to deployment and release workflows, improving system stability and maintainability in a production environment.

Founding Software Engineer, Lexeen Startup, Sep 2021-Jan 2022 | Tehran, Iran

- Built a restaurant reservation platform, application architecture, backend services, and data modeling.
- Implemented core features using Java/PHP/React, supporting real-time table and food reservations.
- Deployed and maintained the system in a production environment, supporting early users and iterating based on feedback.

SKILLS

- **Programming:** Python, Java, C/C++, Bash
- **Software Engineering:** Backend development, System design, Object-Oriented Programming, RESTful API design, FastAPI, Vulnerability analysis, Algorithm design
- **Database & Storage:** MySQL, MongoDB
- **Cloud computing & DevOps:** AWS, Git, Docker, CI/CD
- **Software Testing & Reliability:** Unit testing, Test automation, Debugging, Profiling
- **AI & Applied Machine Learning:** LLM API integration, model evaluation, prompt design for production systems, applied NLP workflows

RECENT PROJECTS

- **Assertify**
A Python-based system that generates code assertions for production software, integrating LLM pipelines into automated production workflows to improve code reliability.
- **Casey**
A vulnerability analysis system that classifies CWE types, assesses severity, and generates vulnerability descriptions from source code using LLM-powered pipelines.
- **ASTA**
An edge-based voice-to-action system combining speech recognition, LLM reasoning, and rule-based routing to enable low-latency command execution.

CERTIFICATIONS

- Neural Networks and Deep Learning, 04/01/23, [Coursera](#)
- Introduction to Cloud Computing, 12/01/22, [Coursera](#)
- Python for Data Science and AI 12/01/22, [Coursera](#)
- AI for Everyone, 11/01/22, [Coursera](#)