HESAM SAMERI

Full-stack Engineer

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Full-Stack Engineer with 10+ years of enterprise software development, specializing in cloud-native architectures and microservices. Proven track record in designing, developing, and deploying scalable web applications with a strategic approach to solving complex technical challenges. Adept at leading Agile teams through iterative development using lean methodologies. Skilled at translating complex technical requirements into robust solutions while maintaining strong stakeholder communication and collaborative team dynamics.

EXPERIENCE

Full-Stack Engineer, Rebound | Nov 2023 – Now

Rebound specializes in reverse logistics solutions, where I contribute as a full-stack developer to mission-critical applications for handling returns.

- Modernized legacy systems by transforming applications into efficient cloud-native services with improved designs and architecture, resulting in reduced inter-service calls and enhanced system performance
- Collaborated with cross-functional teams and main clients to ensure product development aligned with all technical and functional requirements.
- Led DevOps activities, streamlining pipeline processes and ensuring system reliability
- Detected and mitigated a potential DDoS attack by identifying an abusive former client through comprehensive monitoring of database transactions, AWS CloudWatch logs, and service performance metrics, subsequently implementing IP-based rate limiting and request filtering to prevent service disruption.
- **Employed skills and tools:** Spring Boot, React, Docker, AWS (CloudFormation, DynamoDB, Lambda, S3), MongoDB, PostgreSQL, GraphQL, Bitbucket Pipelines.

Freelance Web3 Developer, (Remote) | JUL 2022 – Oct 2023

- Developed Web3 solutions across various blockchains including Ethereum, Akash, Lukso, and Arweave, with a focus on distributed systems and decentralized storage.
- Contributed to open-source blockchain projects, winning multiple hackathon awards.
- **Employed skills and tools:** blockchain, smart contract development, and full-stack programming with Python, Java, JavaScript, and Web3.js.

Lead Software Engineer, Nowruz Group | OCT 2019 – Aug 2022

- Nowruz Technology Development Group has a diverse variety of businesses and startups that are growing very fast. As Lead Software Engineer, I help in the planning and execution of engineering tasks and assist the software development team with any development issues.
- Worked closely with clients and stakeholders to gather and analyze requirements, transforming them into technical solutions that aligned with business objectives.
- Led a team of 5 developers in migrating a legacy monolithic application to an event-driven microservices architecture, significantly improving scalability, reducing complexity, and streamlining maintenance processes.
- Set up CI/CD pipelines using Azure DevOps and Docker Swarm, automating builds, tests, and deployments, resulting in faster and more efficient development cycles with reduced manual intervention.
- Managed and monitored servers and virtual machines using VMware ESXi/vCenter, overseeing the setup of all machines, network configurations, and ensuring optimal performance and reliability of the infrastructure.
- **Employed skills and tools:** Python (Flask, Jinja2, FastAPI, Scrapy, Pandas, Beautiful Soup), Java (Spring Framework), Figma, Databases (ElasticSearch, MongoDB, SQLServer, PostgreSQL), Azure DevOps (Project Management, CI/CD), Docker Swarm, Git, Nginx, VMware ESXi/vCenter

Senior Java Developer, MAPFA | Dec 2018 – APR 2019
o Developed Service Delivery Platform (SDP) modules for Mobile Network Operators to enable them to deliver various Value-Added Services to their subscribers.
o Optimized Analytic panels and Data Entry Gateways systems performance and their reducing response times by 30% through efficient database queries and implementing caching strategies.
o **Employed skills and tools:** Java EE, Oracle PLSQL, Spring Framework, Spring Boot, Gradle, Git, Jenkins CI/CD, Jira project management, Scrum framework

Lead Software Engineer, Karoome | APR 2017 – Nov 2018
o Conducted market analysis to identify the most in-demand features for Karoome job search portal.
o Led the design and development of key website features, including a custom job search engine, resume builder, tools for jobseekers and employers, recommender systems, and social bots.
o Mentored junior developers, guidance on coding best practices, debugging, and improving their technical skills.
o **Employed skills and tools:** ElasticSearch, MySQL, PHP (Laravel Framework), Bootstrap, Vue.JS

Java Software Engineer, Elwin | Feb 2016 – Oct 2016
o Designed and developed web applications for survey management and data analysis for customer reports.
o Implemented low-level TCP-based incoming gateways to handle customer feedback data directly from GSM modems, processing bit-level data without the overhead of higher-layer protocols like HTTP.
o **Employed skills and tools:** Data Analysis, Data Visualization, Java, Spring Framework (MVC, Data, WS, Integration), PostgreSQL, Highcharts

Co-Founder | Technical Lead, AsanModir Startup | July 2014 – June 2016
o Built and led a development team to design and deliver a comprehensive accounting and management application for institutions.
o Managed business operations and full-stack design and development of the web application.
o **Employed skills and tools:** Java EE, Stripes Framework, JSP, JSTL, Hibernate, MySQL, Bootstrap

Java Developer, Parsijoo | July 2010 – Nov 2014
o Developed the initial crawler core, enabling the processing of hundreds of millions of web pages.
o Designed and implemented the front-ends for all search services (web, music, image) and ensured seamless integration with back-end services.
o Introduced search widgets and developed core widgets, including the weather widget, to enhance user experience.
o **Employed skills and tools:** Java EE, Lucene, Apache Solr, Heritrix, Stripes Framework, JSP, JSTL, JSF, JAX-RS

PROJECTS

LUKSense
LUKSense offers an all-in-one solution for buying, selling, and tracking NFT assets.
o The **2nd Place winner** at LUKSO Build UP #1 Hackathon.
o **Applied skillset:** Python, Elasticsearch, Flask, Bootstrap, Web3.js

Banix
Full-stack development of Banix web apps which provides Cleaning, Caring, and Beauty Services at the desired locations
o **Applied skillset:** Java, Spring Boot, Spring MVC, MongoDB, Angular

Hafeze Melli Iranian
Full-stack engineering of Largest Persian online bibliography search engine for Books, Scripts, Official Documents, and Journals for the National Library of Iran
o **Applied skillset:** Search Engineering, Full-Stack Development Using Python, Elasticsearch, Marc

EDUCATION

Master's Degree, IT Engineering (E-Commerce)
2015 – 2018 | **IAU, SCIENCE AND RESEARCH BRANCH**

Bachelor's Degree, Computer Software Engineering
2011 – 2014 | **YAZD UNIVERSITY**

SKILLS

Backend Development
- Expert in building robust backend systems for 30+ web applications and mission-critical services using:
- **Java:** Spring Boot, Spring MVC, Spring Data, Spring AOP, Hibernate/JPA, RESTful APIs, JUnit/Mockito.
- **Python:** Flask, FastAPI, SQLAlchemy, Scrapy, Pydantic, Selenium.
- Advanced API design and integration with tools like Oauth2, Swagger, and GraphQL.

Frontend Development
- Developed interactive, user-friendly UIs in 20+ projects using **React**, **Vue.js**, **Angular**, **Bootstrap**, and prototyping tools like **Figma**.

Cloud-Native Development & DevOps
- Migrated legacy monolithic systems to **cloud-native microservices** architecture on AWS and Azure.
- Hands-on experience with **AWS CloudFormation**, **DynamoDB**, **Lambda**, **S3**, and **EC2** for scalable deployments.
- Implemented **Docker**-based containerization and orchestration with **Docker Swarm** and CI/CD workflows.

Web3 & Blockchain Development
- Built decentralized solutions and smart contracts across platforms like **Ethereum**, **Akash**, **Arweave**, and **LUKSO**.
- Proficient in **Solidity** for smart contracts, **Web3.js**, and wallet integrations with tools like **MetaMask** and **Universal Profile**.

Technical Leadership & Architecture
- Led 7+ projects as **Team Lead** and **Technical Lead**, driving technical strategy, competitive analysis, and end-to-end project execution.
- Designed scalable **Microservices** and **Distributed Systems** using **Domain-Driven Design (DDD)** and well-established **Architectural/Design Patterns**.
- Adopted **Agile Development** (Scrum/Kanban) and **CI/CD pipelines** for streamlined delivery using tools like **Azure DevOps**, **Jenkins**, **Docker**, and **Bitbucket Pipelines**.

Data Solutions
- Optimized database performance for analytics platforms using **Oracle PL/SQL**, **PostgreSQL**, **MongoDB**, and **MySQL**.
- Designed and deployed search engines and crawlers in 10+ projects with **ElasticSearch**, **Apache Solr**, **Nutch**, **Heritrix**, and **Scrapy**.

Infrastructure & Monitoring
- Experienced in Linux server configuration, container orchestration, and infrastructure monitoring using **Nginx**, **Grafana**, **ELK Stack**, **VMware ESXi/vCenter**, and **Veeam**.

Soft Skills
- Proven ability to **collaborate cross-functionally** with stakeholders, clients, and engineering teams.
- Effective communicator with a commitment to mentoring, teamwork, and fostering high-performance development environments.