

Rozhan Asadi

Software Engineer

 Stockholm, Sweden



Rozhan is an enthusiastic Backend Engineer specializing in Java and Python. She enjoys working within a group where she can learn from others and share her experience as well. She is quick at learning new skills and solving problems with new outlook and effectiveness. She is not afraid of facing new challenges and attempting to create something completely new.

Rozhan finds it natural to socialize with people and integrate well into any team, thanks to her communication and understanding skills. Her ability to articulate complex problems in a clear and concise manner facilitates efficient knowledge sharing and smooth project execution. Most recently Rozhan worked as a Software Engineer which has elevated his understanding of product development, finding software solutions and the importance of the agile way of working.

Key Competence

Java, Python, AWS, Transformers, SQL, Backend development, Data Analytics, LLMs

Example of Experience

- Software Engineer @ **DTRI**
 - Data Engineer @ **Svea Solar**
 - Software Engineer @ **Astrid AI**
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Rozhan Asadi

Technical Summary

Area of Experience

Java Development
Python Development
Game Development
System Design
Functional Programming
Reactive Programming

Industry Experience

ML
Game
Education
Power and electronics

Development Languages and Framework

Python
Java
SQL
C++, C#, C
MatLab
Elixir
Assembly

Methodologies

Scrum, Kanban, CI/CD

Databases

SQL, PostgreSQL, BigQuery, MongoDB

Testing

Unit testing, Integration Testing,
Performance Testing

Products/Environments

IntelliJ, VSCode, AWS, DBeaver, pgAdmin,
Docker

Git, Github, Github Actions, Swagger,
OpenAPI

OpenAI, Hugging face, Google Collab,
Berzelius system

unity, blender

Languages

English, Swedish, Persian

Education

KTH Royal Institute of Technology
Bachelor of Computer Engineering

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Selection of Qualifications

Backend Engineer @ DTRI

Q1 2024 – Q1 2024

DTRI offers comprehensive data analysis services tailored for power generation companies. Our solutions enable businesses to efficiently monitor the health and performance of their machinery and instruments across the electrical grid. By delivering detailed analysis reports and predictive insights, DTRI empowers companies to optimize operations, enhance productivity, and ensure reliable power production.

Rozhan was working in the backend team implementing new features for the product. She designed and maintained database structures to ensure optimal performance and scalability. Rozhan wrote and executed unit tests to ensure code reliability and functionality and also conducted integration tests to verify that different components of the application worked together seamlessly. She developed and managed APIs to facilitate communication between different parts of the application.

Rozhan's attention to detail, problem-solving abilities, and dedication to delivering high-quality work made her a valuable asset to the team. She exhibited excellent communication skills and a collaborative attitude, fostering a positive and productive working environment.

Tech: Python, Docker, Github, Swagger, OpenAPI, CI/CD, VSCode, Unit testing, Integration Testing

Project on fairness in LLM based recommendation systems

Q1 2024 – Q2 2024

With the rise of AI assistants and automated systems in our daily lives; it is crucial to examine their accuracy and fairness. The line between personalized user feeds and false biased recommendations can be thin, but important. In this project, Rozhan explored the extent of gender bias in Large Language Models used in recommendation systems, highlighting how such biases can negatively impact user experience.

Rozhan examined on how transformers work and how we can try to make them less biased. She worked on evaluating fairness in LLMs and then started training them accordingly. Her goal was to improve the previously known LLM then improve the code and retrain the model to make it a model that is less biased towards certain characteristics.

She describes her experience with this project as a valuable opportunity to apply her skills to a critical societal issue: the accuracy of our online feeds. This project provided her with

hands-on experience, allowing her to build units from scratch and plan the project scope and timeline more efficiently.

Tech: Python, GitHub, OpenAI, Hugging face, Google Collab, Berzelius system, LLMs, recommendation models, fairness, ML

Data Engineer @ Svea Solar

Q2 2023 – Q3 2023

Svea Solar is a company focusing on generating and providing sustainable energy. Their goal is to lead the shift to a more sustainable future with solar power by making better solar panel energy systems, batteries, car chargers and smart energy management.

At Svea Solar Rozhan got to experience working with database architecture and data processing. A part of her role was to design and implement a database; then she would be designing a pipeline that extracts data from needed end points, filter and clean the data, inject the data into the database and into AWS buckets.

At the end the data would be used by her to make an analysis about how the products of the company were performing. Rozhan was working in a team responsible for the new projects and research in the company. Her contributions helped the engineering team and the sales team to have a better view of the products and to improve them leading to getting more international customers.

Tech: Python, Java, AWS, Lambda functions, PostgreSQL, GitHub, Data injection, Data analysis, Data visualization

Game Engineer @ KTH

Q1 2023 – Q1 2023

Rozhan wanted to experience game development and broaden her skills so she decided to team up with some of her friends and make a simple multiplayer tower defense game. The end goal was to be able to have live multiplayer matches in the game; playable on windows and linux platforms.

She designed 3D characters and buildings for the game in blender, then moved to game logic and backend programming for the game. Additionally, designed and implemented game mechanics, physics, and animations using Unity. Another area that she was contributing to was to make a mechanism that enabled players to get matched and enter a live game. This was done by launching a server where the game process could be saved and communicated to all players.

Since they were working in a start-up setup, Rozhan additionally got the role of the team



leader. Making sure the team is moving forward according to the plan and the product manager is happy with the progress. She used rapid prototypes to test and iterate on gameplay concepts then to optimize game performance and ensure high-quality gameplay.

Tech: Python, C#, Unity, GitHub, blender, game development, Scrum, Kanban, CI/CD, Unit testing, Integration Testing, Performance Testing

Software Engineer @ Astrid AI

Q2 2022 – Q3 2022

Astrid AI aims to enhance communication skills using AI technology. It offers personalized coaching sessions and feedback, particularly for sales and customer-facing roles, and provides automated candidate assessments. Astrid aims to help users speak confidently in any situation.

At Astrid AI, Rozhan played a crucial role in integrating Large Language Models into the app. She added features to improve users' pronunciation, vocabulary, and English communication skills. By incorporating GPT-3, she opened new opportunities for the company and contributed to its evolution into Astrid AI.

Rozhan also contributed to developing a predictive model to forecast user behavior. This involved analyzing user interactions using machine learning techniques to predict how users would engage with app features and content. Her work aimed to enhance personalized coaching experiences by anticipating user preferences and learning patterns, thereby improving the effectiveness and relevance of Astrid AI's educational offerings.

Tech: Python, SQL, VSCode, GPT3, LLMs, Transformers, Backend development, PostgreSQL, BigQuery, GitHub