

# Jose Roberts

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Senior Full-Stack Engineer with 13+ years building scalable cloud-based systems and applications. Expert in Python and SQL with proven experience designing and implementing applications. Led AI/ML initiatives including Generative AI implementations in start-up environments. Experienced in building data architectures from ground up using IAC and modern data stack tools. Passionate about leveraging AI to solve complex challenges at scale.

## WORK EXPERIENCE

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**Very Technology • Remote • 07/2021 - 08/2025**

**Senior Full-Stack Software Engineer**

Lead teams of engineers emphasizing product ownership and scalable solutions for IoT product usage and services

- Consulted in multiple efforts to design and build scalable backends for IoT products
- Engineered event driven scalable backends used for advanced marketing opportunities increasing sales profits 15% in 3 months
- Lead cross functional collaboration with product/design teams for the development and implementation of scalable backend and front end of a social media platform
- Improved the build automation tools, reducing the development lifecycles by using infrastructure as code
- Developed full-stack AI first app for creative marketing content using StabilityAI and OpenAI increasing profits 12% in a month

**Evonik Industries • Mobile, AL • 01/2019 - 07/2021**

**Sr DATA ENGINEER**

Created and designed the full lifecycle of data pipelines to support niche Data Science segment to drive decisions

- Designed and implemented the backend system architecture that supports the needs of the Data Scientists and Analysts
- Implemented machine learning forecasting model for energy consumption reducing costs by 2M in one year
- Performed data integration, reducing redundancies by 80% and decreasing overhead in projects by 50%

**Amazon Robotics • North Reading, MA • 04/2018 - 01/2019**

**DATA ENGINEER**

Developed and maintained data pipelines used by the Deployment Engineering division of Amazon Robotics

- Trained predictive modeling algorithm preventive maintenance reducing downtime by 83%
- Implemented real time data processing analytics dashboards for Deployment Engineers
- Worked on IoT optimization of data backend to automate data collection which reduced costs by 10% in one month

**Bank of America • Riverside, RI • 02/2011 - 04/2018**

**SR DATA ENGINEER/ANALYST - AVP**

Participated in business reviews to improve data workflows and increase the accountability and usability of the data

- Designed and implemented the metadata repository for the Finance group within the Bank
- Used business intelligence and analytics tools to perform reviews on deposit accounts, recovering billions of dollars

## SKILLS

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**Programming Languages:** Java, JavaScript, Python (3.x)

**Frameworks:** Flask/FastAPI/ Django, React/Vite/NextJs, Spring Boot

**Databases:** MongoDB, SQL ( PostgreSQL, MySQL, MSSQL)

**Cloud Platforms:** AWS (Lambda, EC2, RDS, Kinesis), Microsoft Azure (Databricks, Data Factory)

**DevOps & Containerization:** CI/ CD Pipelines, Docker, Kubernetes, Terraform

**Competencies:** Agile/Scrum, Algorithms (sorting, graph traversal, etc.), Data Structures ( linked lists, stacks, queues, etc.)

**Testing & Debugging:** Debugging Tools, Test Driven Development TDD, Unit Testing

**Tools & Technologies:** Generative AI / LLMs / OpenAI / StabilityAI, Git, GitHub

## EDUCATION

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**Master's of Science in Computer Science - Software Engineering**

CTU Online  
GPA: 3.95

**Bachelor of Arts in Political Science**

URI  
Kingston RI

## CERTIFICATIONS

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**AWS Certified Solutions Architect - Associate**

AWS

**TinyML certification**

Harvard edX