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Lead Software Engineer (VP) and Senior Associate - Applied Innovation of AI (AI2)

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Company: JPMorgan Chase & Co.

Location: London

Category: computer-and-mathematical

The Applied Innovation of AI team, a premier machine learning group within the Chief Technology Officer's office at JP Morgan Chase, addresses business critical priorities using innovative machine learning techniques. We collaborate with all business and engineering teams across the firm on long-term projects in Software, Cybersecurity, and Technology Infrastructure. We're seeking top-notch full stack software engineers to assist in the design, development, deployment, and maintenance of AI products. You'll work alongside engineers and research scientists to build and maintain the software and infrastructure that supports our team in developing and delivering groundbreaking AI products. We're hiring at both Lead (Vice President) and Senior Associate levels.

As a Lead Software Engineer at JPMorgan Chase within the Applied Innovation of AI (AI2) team, you will be part of an elite machine learning group strategically located within the CTO office. Your role will involve collaborating with data scientists and research/machine learning engineers to deliver products to production. You will be responsible for building and maintaining data pipelines for analytics, model evaluation and training, as well as scalable infrastructure in the cloud. You will also contribute significantly to architecture and software management discussions & tasks. This role provides an opportunity to work with cutting-edge technologies and make a significant impact on our business.

Job responsibilities

Collaborate with data scientists and research/machine learning engineers to deliver products to production.

Build and maintain data pipelines for analytics, model evaluation and training (includes

versioning, compliance and validation).

Build and maintain scalable infrastructure as code in the cloud (private & public).

Build frontend interfaces leveraging modern web stacks.

(VP) Contribute significantly to architecture and software management discussions & tasks

Rapid prototyping & shorten development cycles for our software and AI/ML products: Build and automate and maintain our AI/ML data pipelines & workstream from data analysis, experimentation, model training, model evaluation, deployment, operationalization, and tuning to visualization. Improve and maintain our automated CI/CD pipeline while collaborating with our stakeholders, various testing partners and model contributors.

Increase our deployment velocity, including the process for deploying models and data pipelines into production.

Required qualifications, capabilities and skills

Formal training or certification on Computer Science concepts and proficient advanced experience

Minimum Bachelor of Science degree in Computer Science, Software Engineering, Electrical Engineering, Computer Engineering or related field.

Proven programming/scripting skills with multiple modern programming languages including Python, Java, TypeScript and similar.

Experience with web development frameworks ex. React, or similar.

Passion for building great user experiences for the clients, attention to detail.

Experience in cloud infrastructure such as AWS, GCP or Azure.[MOU2]

Excellent software design, problem solving and debugging skills.

Strong interpersonal skills; able to work independently as well as in a team.

Experience with database systems such as Elasticsearch, DynamoDB, Aurora, BigQuery, Postgres, Cassandra, Redis.

Experience in containerization and infrastructure as code: Docker/Kubernetes/Terraform

Familiar with monitoring tools such as Prometheus, Grafana, Splunk and Datadog

Preferred qualifications, capabilities and skills

You have a strong commitment to development best practices and code reviews.

You believe in continuous learning, sharing best practices, encouraging and elevating less experienced colleagues as they learn.

Experience with deep learning frameworks such as TensorFlow or Pytorch.

Experience with data labelling, validation, provenance and versioning.

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