

Joseph Moulton

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TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript/TypeScript, C/C++

Other skills: Cloud Infrastructure, Object Oriented Programming, Distributed Systems, CI/CD, Docker, Kubernetes, DevOps, Model Evaluation, Model Inferencing

PROFESSIONAL EXPERIENCE

Software Development Engineer | Amazon AGI | Boston, MA

Jul 2022 - Present

- Maintained feature work for Amazon's foundational AI model customization evaluation service, enabling external customers to evaluate custom trained AI models. This required creating and hosting custom built Docker images on both Kubernetes and Amazon Sagemaker to both support model inferencing and evaluation using common libraries such as FastEval, Nvidia TensorRT, and vLLM.
- Maintained infrastructure and feature work of Amazon Alexa's datalake ingestion API, which is utilized by machine learning scientists to store and retrieve data for AI model building. We operate some of the largest scale distributed systems at Amazon with millions of requests per second and handle data with highest security and privacy standards. These challenges require us to constantly push AWS services to their scaling limits and innovate in software design and architecture.
- Mentored and trained summer interns. Provided support in design work for their summer projects, gave support throughout implementation, and trained them on Amazon culture and development practices.
- Acted as Scrum Master for our team, facilitating daily standup meetings, managing sprint planning, and tracking progress on projects to ensure timely delivery of tasks. I proactively remove roadblocks and optimize workflows, helping teammates focus on development and meet project goals efficiently.

Software Engineering Intern | 3M HEALTH INFORMATION SYSTEMS | Meriden, Connecticut

Jun 2021 - Aug 2021

- Utilized Java SpringBoot and openAPI to develop a RESTful web service to enhance client experience and interaction with 3M enterprise software.
- Demoed the new web service to external customers and used feedback to enhance functionality of web service.
- Worked in a fast paced team environment utilizing the Scrum/AGILE development framework.
- Learned how to plan, develop, and test enhancements to large scale enterprise software using technology such as JUnit, Swagger, openAPI, Spring Boot, Gradle/Maven, and AWS.

PROJECTS

KrakenBot

A cryptocurrency trading bot which implements a custom trading strategy utilizing the Kraken cryptocurrency exchange. Implementation required building an object oriented Java based RESTful API wrapper to make both API requests and receive JSON response objects. The JSON response objects are then mapped to custom Java objects which represent the various types of data the API can respond with. These objects contain data and functions which are used to calculate various data points used to make automated trades on the Kraken exchange. Users of the bot can change various settings, such as the currency pair to trade on, via interaction with a custom coded Discord bot.

EDUCATION

University of Massachusetts Amherst | Amherst, MA

B.A. in Computer Science | B.A in Economics

May 2022

Relevant Courses: Programming Methodology, Algorithms, Data Structures, Statistics, Intro & Intermediate Macroeconomics, Game Theory, Software Engineering, Information Systems, Computer Networks.