Jay Damon

Portsmouth, NH | jay.n.damon@gmail.com | linkedin.com/in/jay-damon | jaydamon.com | github.com/JayDamon

Jay Damon is a Software Engineer with over 9 years of development experience engineering and deploying distributed cloud applications required to handle over 3 million requests daily

Technical Skills

Languages/Tools/Frameworks/Concepts

- Java, Go, Typescript, Python, SQL
- Spring Boot, Spring Cloud, Angular, React
- AWS (ECS, EKS, EC2, RDS, SQS, SNS, S3, SES, Lambda, API Gateway, AppConfig, AWS Secrets Manager)

- Docker, Kubernetes, RabbitMQ, Terraform, AWS CDK, Git
- Jenkins, CircleCI
- Distributed Systems, Microservices Architecture, Test Driven Development (TDD), Database Design, Design Patterns

Professional Experience

Cloud Engineer 4 | Fidelity Investments, Merrimack, NH | May 2023 - CURRENT

- Developed a UI using Angular and Typescript for initiating and tracking the creation of database recovery snapshots, simplifying an error-prone process and ensuring the reliability of database backups for platforms representing over $140 billion in assets
- Re-engineered 2 applications using Java, Spring Boot, and Docker and migrated both from on-premises servers to AWS EKS, improving scalability and eliminating rehydration and other server maintenance
- Automated build and deployment process using Jenkins and Groovy, eliminating deployment errors and reducing developer involvement by 2 hours per week

Software Development Engineer II | Amazon, Boston, MA | June 2022 - March 2023

- Architected feature enabling the bulk download of up to 10,000 documents in a single zip file, allowing for simplified compliance audits on shipping documents in support of Amazons e-commerce platform. Achieved by leveraging S3 batch with a Java-based AWS Lambda function for zipping the files upon request
- Diagnosed a hi-impact bug where traffic spikes led to message processing failure and dropping from the queue for a system handling over 500k documents daily. Resolved issue by flattening out the processing of SQS messages and added a DLQ with automated retry logic, reducing operational load by over 10%
- Mentored 2 junior developers on the team, improved new hire onboarding documentation, and wrote on-call triage process
- Led Q4 peak war room meeting of a combined group of 3 teams, achieving a reduction in high severity issues compared to the previous year by 20% while ensuring the stability of a system supporting over $100 million in global shipments

Senior Software Engineer | Athenium Analytics, Dover, NH | August 2018 - June 2022

- Engineered validation engine capable of processing complex user-created rule sets to run on each entry of a questionnaire by implementing a topological sort and caching, resulting in response times under 5000 milliseconds
- Spearheaded cross-functional team of 7 members to identify the cause of low thoughput in a high-traffic API. Identified a bottleneck with the fluentd log agent and solved the issue by moving to an asynchronous logger and replacing the log driver, enabling a single instance to handle over 60,000 requests daily, doubling the TPS
- Led backend development of greenfield microservice, including building the backend system using Java with Spring Boot, designed the database with Postgres, and deployed to AWS providing a modernized product used by more than 100 business customers
- Implemented IAC platform Terraform to replace manual provisioning and management of AWS resources reducing environment consistency issues to 0

TPM Specialist | Lindt & Sprungli, Stratham, NH | March 2015 – August 2018

- Designed and developed a Safety Reporting system in collaboration with the Environment, Health, and Safety team using Python and SQL Server, simplifying accident reporting and leading to an increased reporting of 20%
- Created an automated dashboard for the management team using Python, VBA, and Excel to provide real-time insights on manufacturing performance on over 200 data points
- Built ETL application with Java to consolidate data from data sources including Microsoft SQL Server, Excel, Word, and CSV into a single database saving 12 hours per week of manual reporting work

Projects

Budget and Money Management Application

- Implemented an application for creating budgets and managing personal cash flow and investments, including integration with Plaid for connecting to bank accounts
- Microservice application made up of 7 backend services written in Go and Java, a React front-end, PostgreSQL databases, and a RabbitMQ Event Bus
- Deployed Kubernetes cluster to home-built server using MicroK8s, Ubuntu Server

Education

B.A. Political Science, May 2010

- University of Maine