Rodrigo Moran

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Senior Software Engineer *focused on delivering robust backend systems with 8+ years of experience designing resilient systems, developing serverless functions, building CI/CD pipelines, crafting data pipelines, and constructing cloud infrastructure.*

Work Experience

Ippon Technologies USA, Senior Software Engineer   **Jun 2019 - Jul 2024**

Capital One, *Contract · 4 mos* - Senior Software Engineer
➔ Led redesign of a Java service to improve the resiliency and reduce engineering overhead by 20%
➔ Collaborated with team and senior leadership to understand the scope and requirements
➔ Documented findings, outlined a solution, and prepared a low-level design document to be reviewed

CIBT, *Contract · 4 mos* - Senior Software Engineer
➔ Modernized their data platform by integrating the Snowflake data warehouse
➔ Developed Python scripts to extract and transform data from over 20 global databases
➔ Integrated Snowpipes to automate data ingestion into Snowflake from AWS S3

The Motley Fool, *Contract · 2 yrs* - Senior Software Engineer
➔ Optimized complex SQL reporting and automated data pipelines using Apache Airflow
➔ Built and maintained AWS Lambda functions in Python and contributed to shared libraries
➔ Migrated and maintained 150+ AWS Lambdas from CDK to Serverless framework
➔ Created CI/CD pipelines using GH actions to reduce deployment time and enforce team standards
➔ Managed and scaled Apache Airflow on EKS to run more than 5000 tasks per day across 350+ dags

QOMPLX, *Contract · 1 yr 10 mos* - Software Engineer
➔ Designed and implemented over 10 Java API endpoints for writing DDL and DML CQL statements
➔ Achieved 80%+ code coverage for unit and integration tests, conducted performance testing using Gatling
➔ Guided teammates with API design standards, pagination, limiting payload size, and unifying naming
➔ Steered the use and development of custom Kubernetes operators to self-manage deployments and manifests
➔ Powered an Event Driven Architecture by creating 5+ AWS Lambda functions using Python

Capital One, *Contract · 4 mos* - Software Engineer
➔ Developed an AWS Lambda function using Go to automate the removal of outdated records ensuring compliance
➔ Delivered a bulk deletion feature in a fraud detection application using Scala

Perfect Sense Digital, Software Engineer   **Feb 2018 - May 2019**
➔ Engineered a platform-level plugin for Calendar events according to RFC specifications
➔ Created a custom frontend gallery module using ES6 JS and CSS

Ippon Technologies USA, Software Engineer Intern   **Jun 2017 - Aug 2017**

Gallium Technologies, Software Developer   **Nov 2015 - May 2017**

Projects

IpponGPT Slack Chatbot   **Jan 2024 – Apr 2024**
➔ Shipped an LLM and Langchain-powered Slackbot to our internal Slack using the Bolt framework
➔ Integrated RAG layer utilizing 100s of internal documents to provide context and improve response accuracy
➔ Enhanced understanding and relevance by introducing prompt routing and short-term memory

Vivify Android Alarm Clock   **Jun 2016**
➔ Built and shipped a Spotify alarm clock to 100s of users on Google Play Store, currently unlisted
➔ Crafted an API wrapper around Spotify's Web API using Retrofit

Education

Virginia Commonwealth University   **Dec 2017**
Bachelor of Science (B.S) in Applied Mathematics, Richmond, VA

Skills, Technologies, and Languages

➔ API design, CI/CD pipelines, cloud infrastructure, data pipelines, DevOps, unit testing, data engineering, serverless
➔ AWS, Kubernetes, Docker, Snowflake, Cassandra, Spring Boot, Apache Airflow, PostgreSQL, Langchain
➔ Go, Java, Python, JavaScript, SQL, HTML, CSS, Scala