Maheswari Manoharan

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PROFILE

I am a T-Shaped Software Engineer with hands-on experience in the analysis, design, development, testing, deployment, and support of enterprise applications. Passionate about building reliable systems, collaborating in cross-functional teams, and continuously learning modern cloud and AI technologies to solve complex problems.

EDUCATION

Master of Science (Computer Science), Bharathiar University, India (Valedictorian)

CERTIFICATIONS

- AWS Certified AI Practitioner https://www.credly.com/badges/b672254c-de4b-4da9-89c3-daf75c2ffe2f
- AWS Certified Developer Associate https://www.credly.com/badges/d2b25f31-a00a-4277-9fed-f2c9402cf812
- Databricks Fundamentals https://credentials.databricks.com/4abc3d1b-e1cc-4afd-a138-afd6d76374f9#acc.XzxFho6d
- HashiCorp Certified Terraform Associate https://www.credly.com/badges/4289e9d1-09fb-4151-908e-8cd496c9692b

PROFESSIONAL EXPERIENCE

Arch Capital Services LLC | Software Engineering Manager | June 2025 – Till Date

- Working as a Manager leading Implementation Engineering team in Arch Capital's Strategic Analytics Services
- Developed services in Python-based backend engineering and API development
- Designed cloud native systems in Azure
- Orchestrated services for predictive analytics and data-driven systems
- MLOps enablement including model serving and production-grade data pipelines for Data science, Data engineering and Feature engineering teams using Databricks, Azure Data Factory and Snowflake
- Implemented CI/CD and developer workflows using GitHub actions and GitHub Copilot.

Cox Automotive (Manheim), Atlanta, GA | Lead/Senior Software Engineer | March 2015 – May 2025

Shop Operations/Seal/Proton Team April 2022 – May 2025

- Worked as a Lead/Senior Software Engineer with one of Manheim's teams that owns applications and environments for the reconditioning side of the business.
- Developed services in Python/AWS Serverless Application Model (SAM), deployed in AWS using AWS Code Pipeline/GitHub Actions (GHA) that uses various AWS services like CloudFormation, Event Bridge, Lambda, S3, SNS, SQS, CloudWatch, Route53, DynamoDB, AWS Chatbot, Amazon OpenSearch, Batch, AWS Lambda Power tools for logger, tracer, metrics, Code Guru profiler, App Config.
- Developed microservices and APIs leveraging an event-driven architecture with Change Data Capture (CDC), enabling seamless event and message propagation across the Manheim ecosystem by triggering API calls on event creation and updates.
- Wrote automation/unit tests using pytest and supported functional, regression and end to end testing for key deliverables.
- Took part in architectural design discussions, worked on Lucid chart architecture diagrams, provided on-call support on team rotations and reviewed GitHub pull requests.
- Upgraded AWS RDS (Relational Database Service) Oracle and Postgres Databases.
- Supported a few Java services that connects to AS400/Postgres database and a Ruby application that connects to Postgres database; Used Terraform as Infrastructure as code (IAC), Jenkins for CI/CD, deployed in AWS that runs on Elastic Beanstalk/EC2 instances.
- Maintained Rally, authored stories, ran standups, presented quarterly planning meetings, took client calls in the first year when respective positions were not filled in.
- Took part in several developer, QA and SRE interview panels to hire new team members, onboarded several new team members, maintained knowledge sharing documents, cross trained the team on new and legacy services, supported other teams in the release train as needed.
- Worked closely with Cox Auto security group to mitigate security issues using tools like Aqua, Veracode and helped implement automated change requests, universal notifier, security orchestrator as part of the GHA pipeline.
- Worked on key Manheim deliverables to support CarMax, Hertz/Auto Integrate, AMP/RRC, LMS, Capture retirement/Designated Description Service integration.

Vehicle Information/Vipar Team June 2020 – April 2022

- Worked as a technical lead on rotation and backend developer in one of Manheim's

Vehicle Information teams that provides accurate and quality vehicle imaging services for all vehicles sold in the Manheim marketplace.

- Developed microservices using Java, Spring Framework, Spring Boot, SOAP web services & REST APIs that used MySQL Aurora, DynamoDB and AS400 databases.
- Deployed services in AWS that used SQS, SNS, EC2, Elastic Beanstalk, CloudWatch, CloudFront, X-Ray, S3, CloudFormation using Job DSL, Terraform as IAC, and Jenkins for CI/CD.
- Wrote unit, automation and performance tests using Junit, Cucumber, Wire Mock, JMeter.
- Supported on-call rotations, worked closely with the offshore team to maintain several on-premises legacy tomcat webservices that uses Enterprise JNDI and provided technical guidance to migrate them to AWS.
- Used other tools/technologies like Rally, SAFe Agile (Kanban), Run scope, Datadog, New Relic, Splunk, PagerDuty, Aqua, Git, Maven, Artifactory, Docker.
- Worked on key Manheim deliverables to support Manheim Image Capture (MIC) and Fyusion.

Redline Team Jan 2020 – June 2020

- Worked as a full stack developer with one of Manheim's teams that owns Seller Dashboard which enables sellers to list their vehicles in the Manheim ecosystem.
- Developed application using Angular (NgRx), Ruby on Rails, Marble, Jasmine, RSpec unit testing and Capybara automated browser testing that is deployed in AWS through Jenkins CI/CD.

EpICS Team March 2015 – Dec 2019

- Worked as a backend developer with one of Manheim's enterprise integration teams that interacted with several Manheim teams like OVE, DEBI, Manheim.com, AS400, BEE, Eventer, ODS, Oracle financial.
- Built and deployed several high performing APIs using AWS Elastic Beanstalk, EC2, CloudFormation, DynamoDB using Jenkins.
- Developed and maintained several webservices in Java, Spring Framework, Spring Boot, SOAP & REST APIs, Tibco SOA (Service Oriented Architecture) that is deployed on on-premises Tomcat, Tibco servers, Oracle, AS400/DB2 databases, JDBC, stored procedure, PCML, FTP, EMS, and JMS queues.
- Implemented authentication, authorization using Manheim's LDAP & Mashery, developed services using event driven architecture with Manheim API Cookbook standards.

- Provided on-call support to both internal and external clients and maintained 100+ webservices that were part of Manheim's Common Services.
- Worked on key Manheim deliverables to support MMR (Manheim Market Report)/Valuations API for eMMR relaunch, GFB API (Guaranteed First Bid) for Manheim Express(Manex), VIN decoding services like VinExplosion, legacy Ready auto transportation, AS400 to Salesforce bridge, Finalize Arbitrations, AS400 Notes API, Ford Quic, Auction Inventory Registration, Transaction Web Service (TWS), Nissan dashboard, support MBonDemand, RMS, Gavel to Gate (G2G) and several others.

Sterling Backcheck, Atlanta, GA | Senior Software Engineer | July 2013 - March 2015

- Worked as a full stack developer with Sterling's Client Integrations team to on-board new clients and provide support for the existing clients.
- Developed applications using Java, JSP, Spring Framework, SOAP web services.
- Wrote unit tests using Junit, screen scraper testing using Selenium and performance test using JMeter.
- Worked with database administrator and wrote SQL code for performance tuning SQL Server database issues.
- Very hands on with troubleshooting issues in Tomcat webserver, JBoss application server and Apache webserver.
- Provided on-call rotation, worked with offshore teams, coordinated with product and other engineering teams in the company and security teams to mitigate risks with PII information.
- Worked on key deliverables to support employment background checks for Lockheed Martin, Taleo, Tumi, Amazon and several (80+) other clients.
- Took part in several support calls with various clients and directly interacted with higher executives of the company to support client integrations as background check is a very time sensitive business in the hiring process.