

# Maheswari Manoharan

**Visa Status:** Naturalized U.S. citizen (No visa sponsorship required)

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## PROFILE

- Engineering leader with extensive experience driving the delivery of enterprise-scale platforms and analytics solutions in regulated environments. Skilled in defining technical strategy, leading distributed engineering teams, and partnering cross-functionally to deliver business-critical outcomes. Known for balancing hands-on technical depth with strong execution, governance, and people leadership.

## EDUCATION

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

## PROFESSIONAL EXPERIENCE

Arch Capital Services LLC | Software Engineering Manager | June 2025 – Present

- Lead the Implementation Engineering team within Strategic Analytics Services, delivering analytics platforms for commercial and specialty insurance (Surety with Moody's integration, Healthcare, Professional Liability-Cyber, Lawyers, PUA and Real Estate).
- Architect and deliver Python-based, cloud-native analytics and API platforms on Azure, supporting predictive analytics models and data-driven systems.
- Enable production-grade MLOps, including model serving, real-time and batch data pipelines using Databricks, Azure Data Factory and Snowflake.
- Implement CI/CD pipelines and modern developer workflows using GitHub Actions and GitHub Copilot to improve quality, reliability, and deliver velocity.
- Serve as the execution and communication bridge between executive leadership and distributed engineering teams, driving compliant delivery, accountability, and alignment in a regulated insurance environment.
- Manage cross-functional delivery across Data Science, Data/Feature Engineering, Data Visualization, QA and Implementation Engineering teams through effective prioritization and relationship building.

- Lead and mentor an offshore engineering team, maintaining operational excellence through PR governance, CAB approvals, and controlled release processes.
- Partner with external vendors and third-party providers to align integrations, data exchanges, and delivery timelines with business, security and regulatory requirements.

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

### *Shop Operations/Seal/Proton Team (April 2022 – May 2025)*

- Led development of Python/AWS Serverless services, deployed via AWS Code Pipeline/GitHub Actions.
- Built microservices and APIs with event-driven architecture and Change Data Capture (CDC).
- Automated/unit testing with pytest; supported functional, regression, and end-to-end testing.
- Participated in architectural design, created Lucid chart diagrams, provided on-call support, and reviewed GitHub pull requests.
- Upgraded AWS RDS Oracle and Postgres databases.
- Supported Java and Ruby services; used Terraform for IAC, Jenkins for CI/CD, deployed on AWS Elastic Beanstalk/EC2.
- Maintained Rally, authored stories, ran standups, presented quarterly planning, and took client calls.
- Participated in interview panels, onboarded new team members, maintained knowledge sharing, and cross-trained teams.
- Collaborated with Cox Auto security group to mitigate security issues using Aqua, Veracode, and implemented automated change requests.
- Supported key deliverables for CarMax, Hertz/Auto Integrate, AMP/RRC, LMS, Capture retirement/Designated Description Service integration.

### *Vehicle Information/Vipar Team (June 2020 – April 2022)*

- Technical lead and backend developer for vehicle imaging services.
- Developed microservices using Java, Spring Boot, SOAP/REST APIs with MySQL Aurora, DynamoDB, AS400.
- Deployed services in AWS using SQS, SNS, EC2, Elastic Beanstalk, CloudWatch, CloudFront, X-Ray, S3, CloudFormation, Terraform, Jenkins.
- Wrote unit, automation, and performance tests with Junit, Cucumber, Wire Mock, JMeter.
- Supported on-call rotations, guided offshore team, migrated legacy tomcat webservices to AWS.
- Used Rally, SAgile, Run scope, Datadog, New Relic, Splunk, PagerDuty, Aqua, Git, Maven, Artifactory, Docker.
- Supported Manheim Image Capture (MIC) and Fyusion deliverables.

### *Redline Team (Jan 2020 – June 2020)*

- Full stack developer for Seller Dashboard.
- Developed with Angular (NgRx), Ruby on Rails, Marble, Jasmine, RSpec, Capybara; deployed in AWS via Jenkins CI/CD.

### *EpICS Team (March 2015 – Dec 2019)*

- Backend developer for enterprise integration teams.
- Built APIs using AWS Elastic Beanstalk, EC2, CloudFormation, DynamoDB, Jenkins.
- Developed webservices in Java, Spring Boot, SOAP/REST APIs, Tibco SOA, deployed on Tomcat, Tibco servers, Oracle, AS400/DB2.
- Implemented authentication/authorization with LDAP & Mashery, event-driven architecture.
- Provided on-call support, maintained 100+ webservices for Common Services.
- Supported MMR/Valuations API, GFB API, VIN decoding, legacy transportation, Salesforce bridge, Arbitrations, Notes API, Ford Quic, Auction Inventory Registration, Transaction Web Service, Nissan dashboard, MBonDemand, RMS, Gavel to Gate.

### **Sterling Backcheck, Atlanta, GA | Senior Software Engineer | July 2013 – March 2015**

- Full stack developer for Client Integrations team.
- Developed applications using Java, JSP, Spring Framework, SOAP web services.
- Wrote unit tests with Junit, screen scraper tests with Selenium, performance tests with JMeter.
- Collaborated with DBAs for SQL Server performance tuning.
- Troubleshoot Tomcat, JBoss, Apache web servers.
- Provided on-call rotation, worked with offshore teams, coordinated with product, engineering, and security teams.
- Supported employment background checks for Lockheed Martin, Taleo, Tumi, Amazon, and 80+ clients.
- Participated in client support calls and executive interactions for time-sensitive background check integrations.

### **AI ENGINEERING (Independent Projects)**

- Self-directed AI engineering initiatives translating applied use cases into scalable, production-grade system designs.
- Git:
  - <https://github.com/maheswarim-work/MyPerson>
  - <https://github.com/maheswarim-work/MyPerson-Mobile>
  - <https://github.com/maheswarim-work/maheswari-manoharan-ai-portfolio>

- Tools: Cursor IDE, Claude Code, Bolt.new
- Technologies: AWS Bedrock, AWS CloudFormation, Python, NextJs/React Native, GitHub Actions, Cloudflare.
- Designed and built end-to-end AI-driven applications as personal projects, applying modern LLM-based architectures, automation workflows, and AI-assisted development practices.
- Hands-on development across backend services, application logic, and user-facing components, focusing on practical, production-style AI use cases.
- Evaluated and integrated AI-first developer tooling to accelerate development velocity and improve code quality, including:
  - Cursor IDE for AI-assisted coding and refactoring
  - Claude Code for advanced reasoning, code generation, and architecture exploration
  - Bolt.new for rapid prototyping and full-stack application scaffolding
- Explored AI-enabled productivity patterns, including prompt engineering, agent-based workflows, and iterative design-to-code pipelines.
- Applied software engineering best practices (modular design, version control, deployment readiness) to AI projects to mirror real-world production environments.

## 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>