

# RAVIKIRAN BETHALA

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## PROFESSIONAL SUMMARY

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Associate Software Engineer with 7 years of hands-on experience delivering scalable and secure backend solutions. Developed performance-optimized distributed systems and improved response times by 25%, ensuring production-grade reliability. Proficient in cloud computing, modern deployment pipelines, and building robust APIs while collaborating effectively with cross-functional teams to enhance customer experiences.

## EDUCATION

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University of North America

2025

Master of Science, Computer Science

•GPA: 3.67

## PROFESSIONAL EXPERIENCE

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Best Value Distro INC

June 2025 – Present

Java Developer

- Developed and maintained backend services and RESTful APIs using Java and Spring Boot.
- Built scalable modules for inventory, order management, and customer workflows.
- Integrated third-party services for payments, logistics, and user authentication.
- Wrote efficient SQL queries and optimized database interactions using JDBC and JPA/Hibernate.
- Followed Agile methodologies with active participation in sprint planning and daily stand-ups.
- Ensured application performance and reliability through profiling and code optimization.
- Created unit and integration tests using JUnit and Mockito for high test coverage.

Mphasis

Jan 2017 - Feb 2023

Client: HDFC Life Insurance

**Project Name:** Intelligent Policy Processing Platform (IP3)

**Domain:** Insurance / AI-Driven Automation

**Role:** Java Developer

**Duration:** [05/2021 – 11/2022]

**Project Overview:**

Developed a cloud-based intelligent automation platform to streamline policy issuance, claim verification, and customer onboarding by integrating AI/ML models and distributed microservices architecture.

**Roles and Responsibilities:**

- Designed and developed **Java-based microservices** using **Spring Boot** to manage policy data, customer records, and claims processing.
- Built and consumed **RESTful APIs** for seamless integration with front-end portals, legacy systems, and third-party services.
- Integrated **AI/ML models built in PyTorch** to automate document verification and fraud detection workflows.
- Deployed scalable services on **AWS (EC2, S3, RDS)** using **Docker containers** and managed orchestration with **Kubernetes**.
- Created **CI/CD pipelines using Jenkins** to automate code integration, testing, and deployment.
- Optimized **MySQL queries** and implemented indexing strategies for faster data retrieval across large datasets.
- Automated routine maintenance and deployment scripts using **Linux shell scripting**, improving operational efficiency.

- Participated in **Agile ceremonies** (daily stand-ups, sprint planning, retrospectives) and used **JIRA** for task tracking.
- Ensured application stability and scalability by performing **load testing and performance tuning**.
- Documented technical workflows, API specifications, and deployment guidelines for cross-team collaboration.
- Worked closely with QA and DevOps teams to support UAT and production deployments with minimal downtime.

## Acuvate

Oct 2016 - Jan 2017

### Software Engineer Intern

- Collaborated with full-time engineers to design, develop, and test key software components to support backend systems.
- Contributed to the development of APIs and backend modules that integrate with cloud and enterprise platforms, emphasizing robust performance.
- Assisted in database management by writing queries, optimizing schema design, and streamlining data handling for data-driven projects.
- Participated in digital transformation initiatives by supporting the integration of software solutions with emerging technologies.

## ACADEMIC PROJECTS

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### Impact of Machines and Systems with AI for Business on Human Jobs

- Conducted in-depth research on how AI systems are transforming traditional business operations and their effect on employment.
- Analyzed case studies and data to identify trends in automation, workforce displacement, and the emergence of new job roles.
- Proposed strategic recommendations for businesses to adapt to AI integration while minimizing negative workforce impacts.

## TECHNICAL SKILLS

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- **Programming Languages:** Java, Python
- **AI & ML Frameworks:** PyTorch
- **Cloud Platforms:** AWS, Azure
- **DevOps & Ci/Cd:** Docker, Kubernetes, Jenkins
- **Web Development:** HTML, CSS, JavaScript
- **Tools & Databases:** Git, VS Code, MySQL
- **Soft Skills:** Communication, Teamwork, Problem Solving
- **Methodologies:** Agile, Scrum
- **Others:** REST APIs, Linux Shell Scripting, Distributed Systems

## CERTIFICATIONS & COURSES

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- **Full Stack Web Development with React:** Coursera
- **Python for Everybody:** University of Michigan
- **AWS Certified Solutions Architect - Associate**
- **TensorFlow Developer Certificate**