

ADVAIT DESHMUKH

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SUMMARY

Software Engineer with **4.5+ years of back-end development** experience in designing and delivering **highly performant, scalable** solutions across diverse industries. Proficient in microservices development with **Java, Python, Spring Boot, SQL, and NoSQL** databases, with expertise in **RESTful APIs**. Hands-on experience with cloud technologies, particularly AWS, as an **AWS Certified Cloud Practitioner**. Passionate about applying **AI, Distributed Systems**, to build robust, scalable solutions for large-scale applications.

USA WORK AUTHORIZATION: H-1B VISA

PROFESSIONAL EXPERIENCE

Consultant - CAPGEMINI

Bangalore, KA, India

Mar 2025 - Present

- Provide end-to-end software engineering solutions for corporate and investment banking systems, contributing to operational and functional improvements across customer onboarding, and critical transaction processing services.
- Optimized and integrated workflows between payment processing stages, ensuring 100% adherence to compliance standards.
- Implemented **circuit breakers and fallback mechanisms** for key corporate banking APIs to ensure **99.99% uptime**.

Senior Software Engineer - WORLD VISION INFOTECH PVT LTD

Pune, MH, India

Jan 2024 - Aug 2024 (Freelance), Sep 2024 - Feb 2025 (Full-time)

- Developed a Custom Resource Management System (RMS) with **Java, Spring Boot, Angular, Ionic, and PostgreSQL**, reducing external processing costs by 30%.
- Architected and implemented an AI-powered customer service chatbot using **Python, OpenAI API, and Flask**, incorporating prompt engineering and context management to achieve 65% automation of customer inquiries.

Technical Consultant - PERICIENT INC

Redmond, WA, USA

Apr 2022 - Dec 2023

- Optimized Insurance Claims API processing, writing **Adapters** and **REST** service calls, using **Java, Spring Boot, Oracle SQL DB, and JAX-RS**, increasing automation levels from 88% to 93%, for 12,000+ daily pharmacy orders
- Engineered the back-end of a research analytics web application, handling 15,000 transactions per minute using **Spring Boot** and **PostgreSQL**, improving data processing and CRUD functionality.
- Proactively identified and resolved over **250 production issues** and security vulnerabilities, ensuring system integrity and maintaining the **99.99% service uptime** SLA.

Software Development Engineer – AMAZON.COM INC

Seattle, WA, USA

June 2020 - Mar 2022

- Developed automated workflows for AWS services- **DynamoDB, SQS, SNS, Lambda, Redshift**, reducing manual tasks by 80%.
- Led the design and implementation of a browser-based bot challenge system across the full-stack, utilizing **TypeScript, Java, and Spring MVC**, reducing bot sign-ups and sign-ins by approximately 26%.
- Optimized CAPTCHA service code by improving service design and implementing **asynchronous processing in Java** to reduce processing time from 650ms to 560ms, boosting performance by 14%.
- Led the deprecation of internal service, leveraging **data analytics** insights through **Jupyter notebooks** and collaborating with cross-functional teams, resulting in a 20% reduction in operational costs.

SKILLS

- **Languages:** Java, Python, JavaScript/TypeScript, HTML, CSS (SCSS, Tailwind)
- **Artificial Intelligence/Machine Learning:** LLM APIs (OpenAI, codellama), TensorFlow, PyTorch, Keras, OpenCV
- **Databases:** SQL - MySQL, Oracle SQL, PostgreSQL; NoSQL - DynamoDB, MongoDB
- **Frameworks:** Spring Boot, Spring MVC, Ionic, Flask, Django, REST APIs, React.js, Next.js, Angular, Hibernate
- **Tools:** Maven, Kafka, Postman, OpenAPI, Jupyter, Grafana, Splunk, Git, GitHub, BitBucket, Docker, Kubernetes, Jenkins
- **Software Quality/Testing:** JUnit, Mockito, PowerMock, Selenium, Cucumber / Gherkin, Postman, JMeter

Certifications: AWS Certified Cloud Practitioner (Validation Number: **ESTDV3KC6EVEQ6GQ**)

EDUCATION

University at Buffalo, The State University of New York

Master of Science, Computer Science and Engineering

Buffalo, NY
August 2018 – February 2020

University of Mumbai

Bachelor of Engineering, Computer Engineering

Mumbai, India
August 2013 – May 2017