AAKASH SORATHIYA

Calgary, Canada ◇ +1(368) 399-0872 ◇ akashsorthiya@gmail.com ◇ linkedin.com/aakash-sorathiya

EDUCATION

MSc in Computer Science, University of Calgary, Canada — GPA: **4.0/4.0**   2024 - 2025
Coursework: Data Mining and Machine Learning, Machine Learning for Software Engineering
Leadership: **CoInstructor** (Software Requirements Engineering (SENG471)), **Teaching Assistant** (ENDG310, ENSF380), **Mentor** (Schulich Ignite, SHAKTI Lab)

BEng in Computer Science, Maharaja Sayajirao University of Baroda, India — GPA: **3.83/4.0**   2016 - 2020
Coursework: Object-oriented Programming, Data Structures and Algorithms, Computer Architecture.
Extra-Curricular: Organizing Team Member [2017-2018] and Core Committee Member [2019] of a national-level technical event – FootPrints, Member of Training and Placement Cell [2020]

EXPERIENCE

Specialist Programmer, Infosys   02/2023 - 12/2023 — Pune, India
Tech Stack — *Java, SpringBoot, Spring, JUnit, AWS*

- Configured Phoenix Database with Adobe Experience Platform, attracting two major clients for Adobe, contributing to an estimated $500K in potential revenue while enhancing Infosys's business visibility with Adobe.
- Spearheaded a team of 4 engineers in standardizing data exchange for files, messages, and APIs between Sabre and Aeromexico with enhanced security encryption and fine-grained access control, contributing to an estimated 29% increase in revenue as a part of its digital transformation to cloud services.

Digital Specialist Engineer, Infosys   09/2020 – 01/2023 — Bangalore, India
Tech Stack — *Java, SpringBoot, Spring, JUnit, Docker, Kubernetes, Neo4j*

- Eliminated 85% code smells through the implementation of SonarQube static analysis and automated CI/CD quality gates, impacting 150K+ daily users.
- Resolved critical memory leak in distributed cache implementation by optimizing in-memory maps and implementing proper object dereferencing, reducing memory footprint from 6GB to 3.3GB across 10 microservices.
- Implemented GraphQL schema caching solution that increased application throughput from 1000 to 1400 requests/second and reduced build time from 55 seconds to 25 seconds.
- Designed a containerization strategy using Docker and Kubernetes, reducing deployment time from 45 to 8 minutes and enabling zero-downtime deployments across 3 geographic regions for Infosys.
- Tech-led team of 4 in integrating Apollo GraphQL plugin in our product by driving the project through 5 successful sprints with 100% on-time delivery, resulting in 3 new major clients for the product.

PROJECTS

ARE_Miner — Tech Stack: *Python, Natural Language Processing, FastAPI, AWS, Nginx, React, GitHub Actions*

- Implemented an ML model in Python using a sequence-to-sequence framework to extract software requirements automatically from application reviews with 95% F1 measure, achieving 2.2x improvement over the current state-of-the-art for this task. Deployed this solution as an easy-to-use tool for software developers along with the functionality of exploratory data analysis.

SAGE — Tech Stack: *Python, Natural Language Processing, Natural Language Inference, Machine Learning, LLM*

- Developed a decoder-only model with a unique data sampling technique based on NLI to classify application reviews related to privacy concerns. Achieved an F1 measure of 85%, showing an improvement over the state-of-the-art provided by the Google research team for this task.

SKILLS

Technical Expertise: Java, Python, Typescript, SpringBoot, Spring, PyTorch, TensorFlow, Django, FastAPI, JUnit & Mockito, Neo4j, PostgreSQL, Cypher, SQL, VSCode, IntelliJ, GraphQL, Git, Docker, Kubernetes, AWS
Character Traits: Strong application-oriented, Work well in teams, Leadership competent, Honest