AAKASH SORATHIYA

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OBJECTIVE

A software engineer with 3+ years of expertise in developing scalable enterprise applications using Java and Python. Currently pursuing MSc research in applied NLP, focusing on requirements engineering, and graduating by August 2025. Seeking innovative SWE/SDE roles in India to leverage technical skills and research expertise.

SKILLS

Domain	Backend Development, Applied ML, Applied NLP
Programming Languages	Java, Python, Typescript
Framework	SpringBoot, Spring, PyTorch, TensorFlow, Django, FastAPI, JUnit
Database and Query Languages	Neo4j, PostgreSQL, Cypher, SQL
Tools/Technologies	VSCode, IntelliJ, GraphQL, Git, Docker, Kubernetes, AWS

EDUCATION

MSc, University of Calgary   2024 - 2025 — Calgary, Canada
GPA: **4.0/4.0** — Major: **Computer Science**

BEng, Maharaja Sayajirao University   2016 - 2020 — Vadodara, India
GPA: **3.83/4.0** — Major: **Computer Science**

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 2 major clients for Adobe and boosting Infosys's business visibility with Adobe.
- Led an offshore team of 7 members in migrating AeroMexico's monolithic app to a microservices architecture using SpringBoot framework.

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

- Eliminated 85% of 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.
- Implemented 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.

PUBLICATIONS & PATENT

Sorathiya, Aakash, and Gouri Ginde. "Towards Extracting Ethical Concerns-related Software Requirements from App Reviews." arXiv preprint arXiv:2407.14023 (2024). — **Accepted in ASE NIER 2024**

Sorathiya, A., & Ginde, G. (2024). Ethical software requirements from user reviews: A systematic literature review. arXiv preprint arXiv:2410.01833. — **In-progress work**

Chauhan, Y., Unadkat, D., Mahabhaleshwara, M. A., Bansal, A., **Sorathiya, A.**, Avasthi, P., & Venkatasubramanian, S. (2024). **U.S. Patent No. 12,019,630.** Washington, DC: U.S. Patent and Trademark Office.