Kannappan Aravind Raghavan

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SUMMARY

Results-driven Software Engineer with 3+ years of experience in cloud computing, microservices architecture, and distributed systems. Specialized in designing scalable, fault-tolerant microservices, optimizing system performance, and implementing cloud solutions that enhance efficiency. Experienced in leading high-impact projects, mentoring teams, collaborating with stakeholders, and driving cost-effective solutions that enhance operational efficiency.

TECHNICAL SKILLS

Languages: HTML, CSS, SQL, C, C++, Java, JavaScript, TypeScript, Python, Spark, Bash
Frameworks: Spring Boot, React, Flask, Tailwind CSS, Hibernate, Hadoop (Big Data), Node.js, Firebase
Developer Tools: Microsoft Azure (Azure Kubernetes Service, Azure DevOps), GCP, AWS, Git, Docker, Kubernetes, Terraform, Redis, RabbitMQ, PostgreSQL, MySQL, MongoDB, Maven, Elasticsearch, CI/CD, Linux, Swagger, Figma, JUnit, Mockito, Postman, Selenium

EXPERIENCE

Student Technical Assistant — Jun 2024 - Present
The University of Texas at Arlington
- Increased user engagement by 30% by revamping the university's department website, improving structure, navigation, and accessibility.
- Boosted faculty satisfaction by 35% by migrating websites from legacy systems to CampusPress, enhancing interactivity and usability.

Software Engineer — Aug 2020 - Jun 2023
Tata Consultancy Services
- Reduced order processing time by 40% and cut costs by 20% by developing RESTful APIs on **Azure Kubernetes Service (AKS)** to automate order consolidation using centralized rule-based batching.
- Cut shipping errors by 15% by designing scalable warehouse management **microservices** that enabled real-time tracking for port-based logistics.
- Improved system scalability and resilience by leading **Agile-driven** migration of on-premises services to **Azure Kubernetes Service (AKS)** while managing 5+ middleware systems.
- Enhanced issue detection by 30% and improved operational efficiency by deploying **automated log-monitoring solutions** for mission-critical applications.
- Ensured **99.99% uptime** during high-traffic e-commerce sale periods by spearheading and managing a team for two consecutive years, optimizing system reliability.
- Delivered a **Minimum Viable Product (MVP) in 3 months** by architecting the foundational backend system for a sale monitoring dashboard, enabling real-time insights.
- Increased warehouse efficiency by 25% by implementing **10+ new features in E-Fulfill**, optimizing order fulfillment processes.
- Reduced deployment time by 50% by **automating CI/CD pipelines** using **Azure DevOps**.

PROJECTS

ShopSwift (E-Commerce Platform) — Jun 2024 - Aug 2024
HTML, CSS, JavaScript, Spring Boot, MySQL
- Enabled seamless transactions for **500+ concurrent users** by building a secure, responsive e-commerce platform that supports sellers listing products and buyers making purchases effortlessly.

Portfolio Website — Dec 2024 - Jan 2025
React, HTML, CSS
- Improved page responsiveness across **100% of tested screen sizes** by designing and developing a front-end **portfolio website** using modern **UI/UX principles** and web development best practices.

Volunteer Management System — Jan 2024 - May 2024
React, MySQL, Laravel, Node.js
- Automated volunteer **registration, graduate tracking, and administrative workflows** by developing a web platform that streamlined management processes, improving efficiency.

Text Summarizer — Aug 2023 - Nov 2023
Flask, GCP
- Developed an **AI-driven text summarizer** with **90% accuracy**, deployed on **Google App Engine** with **secure API key management** and **99.99% uptime**, handling thousands of requests.
- Integrated **real-time logging** and push notifications via **Google Pub/Sub** for proactive monitoring and automated CI/CD pipelines using **Google Cloud Build** to streamline deployments.

EDUCATION

The University of Texas at Arlington — Aug 2023 – May 2025
Master of Science in Computer Science | GPA: 4.0

Sastra Deemed University — Jun 2016 – May 2020
Bachelor of Technology in Computer Science and Engineering