Yash Kumar

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EDUCATION

Master of Science, Software Engineering Aug 2024 – May 2026
San Jose State University, San Jose, CA **GPA: 3.86**
Relevant Coursework: Distributed Systems, Software Platforms, Systems Engineering, Application Development, Data Mining.

Bachelor of Technology, Computer Science & Engineering Jul 2017 – May 2021
National Institute of Technology (NIT), Nagpur, India **GPA: 3.66**
Relevant Coursework: Data Structures, Algorithms, Object Oriented Design, Database Management Systems, Operating Systems.

PROFESSIONAL EXPERIENCE

Software Engineer II, Uber Aug 2026 – Present

- Migrated rider-to-driver upgrades off legacy asynchronous write logic at **99.96%** success rate for over **1.7M requests/day** in **Go**.
- Enabled onboarding flow resolution to deprecate legacy writes for fleet driver cases, reaching 100% shadow parity and **99.998%** success for over **24k requests/day** by designing and building a new **gRPC** endpoint in **Go** and integrating with fleet services.
- Fixed 68 **integration test suites**, including ones gating deployment, raising shared suite pass rates from **89.7%** to **98.9%**.

Software Engineering Intern, ZETIC Aug 2025 – May 2026

- Enabled **SDK** integration for **1000+** customers by leading engineering of **SaaS Dashboard** on **Next.js**, **TypeScript**, and **Django**.
- Achieved **20x improvement** in dashboard latency via API batching, caching, schema optimizations, and backend offloading.
- Reduced distribution costs by extending **Airflow** pipeline to publish models to **Hugging Face**, saving $3 per-model download.
- Improved performance on over **20%** of devices by expanding benchmarking across **5 hardware backends** using **ExecuTorch**.

Software Engineer, Fidelity Investments Aug 2021 – Jul 2024

- Modernized legacy data infrastructure by architecting a real-time **data pipeline** to migrate & transform **60M+** transaction records to **Oracle** on **AWS**, improving resiliency & idempotency, and reducing licensing & maintenance costs due to vendor lock-in.
- Built & integrated **2 microservices** in **Spring Boot**, incorporating polling mechanisms & shared JAR dependencies into pipeline.
- Engineered an auto-failover **application resiliency** library, enabling switchover between **AWS** regions in **under 1 minute**.
- Collaborated cross-functionally to define schemas & **data models**, ensuring seamless integration with business requirements.
- Resolved **10+** production bugs and wrote **JUnit** tests, reducing daily errors by **70%** and boosting **Sonar** coverage to over **90%**.
- Automated daily reporting work for fintech fund managers by creating interactive **Tableau dashboards** for performance analysis. Reduced render times by **60-70%** by optimizing **SQL** queries & offloading live calculations to scheduled **ETL** scripts.
- Migrated **10 apps** from on-prem to **AWS** using **Jenkins** & **Terraform**, enabling seamless **CI/CD** & accelerating release cycles.

PROJECT EXPERIENCE

MarketMind AI Hub, SJSU Sept 2025 – May 2026

- Designed multi-agent platform (**React**, **FastAPI)**, automating end-to-end marketing workflows for **5+ social media platforms**.
- Built orchestrator-driven agent services for automated **content scheduling** and **analytics** feedback loops deployed on **AWS ECS**.

EcoQuest, SJ Hacks 2025 Apr 2025

- **Won 2nd place** at **SJ Hacks 2025** by developing EcoQuest, a **gamified** platform to promote community-driven cleanup efforts.
- Built a full-stack app using **FastAPI** & **JavaScript**, integrated with **Google Maps** & **Firebase** to track & reward user activity.

Scales Jan 2025

- Constructed a custom **load balancer** in **Spring Boot** to dynamically distribute traffic across healthy **AWS EC2** instances.
- Supported **auto-scaling** mechanisms & **fault tolerance** for backend servers by implementing a **SQS**-driven heartbeat protocol.

NextMeal, SJSU Oct 2024 – Dec 2024

- Delivered a highly scalable, **AI-driven restaurant platform** by deploying distributed **REST API** microservices in **Spring Boot** & **Python** on **AWS** cloud, integrated with other **AWS services** like ECS, SQS, RDS, DynamoDB, S3, and ElastiCache.
- Implemented a **RAG**-based **AI Assistant** powered by **OpenAI API** & OpenSearch Service **vector** database.

TECHNICAL SKILLS

- **Languages:** Java, Python, C++, SQL, JavaScript, TypeScript
- **Backend:** Spring Boot, Django, FastAPI, Maven, REST APIs, Microservices, Junit
- **Frontend:** Next.js, React, Angular, HTML, CSS, Selenium
- **Databases:** PostgreSQL, Oracle, SQL Server, MongoDB, Firestore
- **Cloud & DevOps:** AWS, Docker, Kubernetes, Terraform, GitHub Actions, Jenkins Core, Apache Airflow, Git, Jira, Agile