RISHAV KUMAR

Senior Software Engineer

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EXPERIENCE

Senior Software Engineer
Visa – Austin, TX

📅 September 2024 – Present

- Developing an AI-driven system to aggregate and summarize system failures, identify root causes, and analyze contributing factors from change data and automated healthchecks, significantly accelerating incident response, enabling faster triage by 20%, and reducing downtime.
- Building and optimizing a scalable alert system for SWAT calls using Angular, Node, TypeScript, Python, and MySQL, improving failure remediation procedures, bolstering security risk management, and proactively alerting teams to critical system events across Visa's global infrastructure.

Software Engineer
Arizona State University – Tempe, AZ

📅 September 2021 – August 2024

- Developed and optimized full-stack applications using React, Next.js, TypeScript, MikroORM, and SQL Server, fully automating a wide range of student management tasks to reduce manual work by 25%, while improving database query efficiency by 30% via robust API integrations and targeted SQL Server optimizations.
- Ensured 99.9% uptime by deploying and closely monitoring application servers with Prometheus and Grafana, significantly enhancing performance tracking, scalability, and incident resolution in a Scrum-driven Agile environment, and reducing mean time to resolution (MTTR) by 15%.

Software Engineer Intern
Visa – Austin, TX

📅 May 2023 – August 2023

- Built and refined a Synthetic Monitoring System Project with Node.js, PHP, Prometheus, and Grafana, reducing pipeline validation time by 30% and improving the overall reliability of the deployment process.
- Created a JSON editor with Java, Redis, and MongoDB, cutting backend support tickets by 50%, while also developing a robust traffic simulation tool for gateway testing that enabled more comprehensive performance assessments.

Software Engineer Intern
Visa – Austin, TX

📅 May 2022 – August 2022

- Developed a Kafka pipeline and metrics ingestion pipeline leveraging Prometheus TSDB and Druid, boosting data ingestion throughput by 20% and enabling real-time anomaly detection across large-scale data sets.
- Delivered a secure, high-performance anomaly detection system under tight deadlines, leveraging authenticated pipelines to reduce operational costs, streamline compliance, and enhance data governance.

EDUCATION

M.S., Computer Science
Arizona State University

📅 August 2024

B.S., Computer Science
Arizona State University

📅 December 2023

PROJECTS

Hospital Management System
Python, PHP, MySQL, Bootstrap UI
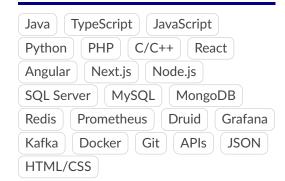
📅 Sep. 2016 – Aug. 2021

- Developed Invoicing and Medical Prescription Software (200k+ LOC), generating 25k+ invoices and reducing paperwork by 75%.
- Developed a HIPAA-compliant online consultation solution using AWS, serving 3,500+ patients with high reliability and scalability during COVID-19.

Hosting Checker
JavaScript, PHP, MySQL, JSON

📅 May 2020 – Aug. 2020

- Built a web tool to identify web hosting providers, improving speed by 82% using GeoIP libraries, IPAPI, and JSON.
- Product of the Day on ProductHunt for its performance and user-friendly interface. 30k+ monthly users.

SKILLS

Java · TypeScript · JavaScript · Python · PHP · C/C++ · React · Angular · Next.js · Node.js · SQL Server · MySQL · MongoDB · Redis · Prometheus · Druid · Grafana · Kafka · Docker · Git · APIs · JSON · HTML/CSS

AWARDS

- Apple WWDC Scholarship - 2019, 2020
- TEDx Speaker