

Aman Kumar

Software Engineer

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<https://kraman.tech>

Bangalore, India

Software Engineer with 3½+ years of experience developing scalable cloud applications. Skilled in end to end development using Node.js and Python, with expertise in cloud architecture, performance optimization, and container orchestration with Kubernetes and Docker.

Work Experience

Software Engineer

Apr 2024 - Present

Mobileum | Bangalore

- Developed and deployed GraphQL APIs in coordination with cross-functional teams, facilitating external firewall rule provisioning and enhancing system interoperability.
- Led the migration to containerized infrastructure by containerizing firewall components using Docker, optimizing deployment processes and reducing deployment issues due to environment by 80%.
- Developed Helm charts to consolidate separate Kubernetes manifests, significantly simplifying firewall component deployment.
- Deployed and managed containerized firewall components on AWS Elastic Kubernetes Service (EKS), overseeing Kubernetes deployments, implementing health checks, and managing autoscaling for optimal performance and reliability.

Associate Software Engineer

Dec 2021 - Mar 2024

Mobileum | Bangalore

- Developed and maintained firewall provisioning GUI using Aurelia.js, Node.js/Express.js, and Hazelcast, enabling efficient firewall rule management.
- Led the server migration from Node.js 12 to 20 and transitioned the project from a privately hosted bare Git repository to GitHub, improving uptime and collaboration.
- Implemented GitHub Actions to automate container builds, ensuring seamless deployment of the firewall provisioning GUI.
- Implemented a Kafka streaming solution that transformed legacy file-based reporting into real-time analytics, resulting in immediate visibility into application metrics.
- Engineered a Python-based Prometheus exporter that automated metrics collection, transforming raw statistics files into standardized Prometheus formats and enabling comprehensive metrics monitoring.

Projects

Flow (Chrome Extension)

Nov 2024

A Chrome extension that transforms your new tab page into a personalized dashboard. This extension integrates with external APIs like OpenWeatherMap and Unsplash to display the current weather, a stunning background image, and an inspiring quote of the day!

Certify

May 2024

A Svelte app to generate self-signed x509 certificates. Helpful in testing TLS connections in development and QE environments. (Never use self-signed certificates in production!)

Sverdle

Jan 2024

A Svelte-based web application inspired by the 2022 hit game Wordle, delivering an interactive and intuitive word-guessing experience. Players attempt to guess a 5-letter word within 6 tries. Built using Svelte, HTML, and CSS, and deployed on

Vercel.

Core Skills

Languages: JavaScript, Python, Java, TypeScript, Bash Scripting

Frontend Ecosystem: React.js, Svelte, Vite, Chrome Extensions

Backend & Architecture: Node.js, Express.js, GraphQL, REST API, Microservices

Data Mangement: PostgreSQL, Redis, MongoDB

DevOps: Docker, Kubernetes, Helm, AWS, CI/CD (GitHub Actions)

Testing & Tools: Jest, Cypress, Postman, Git, Test-Driven Development (TDD)

Education

Silicon Institute of Technology

May 2017 - May 2021

B. Tech. Computer Science

GPA: 8.61

Certificates

Graph Developer - Associate

Feb 2025

Apollo GraphQL