Naveen Kumar
Software Development Engineer III

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Skilled IT professional with over 6 years of software engineering experience in Cloud Engineering, Network Management and Full stack Development.

Skills

DevOps Tools	Docker, Kubernetes, Helm, Vagrant, Terraform
Monitoring	Grafana, Prometheus, Percona, Loki, Promtail
Ingress Tools	NGINX, Kong, Istio, Kiali
Scripting	Ansible, Chef, Bash
Backend Frameworks	**echo, gin (golang)**, **Django**, **Flask**, Node.js
Frontend / Mobile	**React, Angular, Vue**, SvelteKit, **Flutter, Cordova**
Languages	**Python**, **Go**, Bash, JS/TS, C/C++, Dart
Datastores	Postgres+postgis, TimescaleDB, MongoDB, Redis
Schedulers	Celery, RabbitMQ

Experience

ColorTokens Inc. – Xcloud & Xshield NextGen teams (Cyber Security) — Bengaluru, India
Member of Technical Staff – III (DevOps & Backend) — *July 2022 — Current*

- Developed Zero-Trust security analysis workflow on kubernetes clusters for CSPM on AKS, EKS, GKE platforms.
- Developed DHCP relay server to perform network micro-segmentation.
- Converting monolith services running on AWS EC2 and AWS Lambda into kubernetes microservices.
- Building hardened docker images (approved by IronBank) for enhanced security.
- Deploying and managing on-premise, air-gapped kubernetes clusters on Vsphere and AWS for various clients.
- Developed custom kubernetes operator to facilitate multiple Short Lived Application Testing Environments on single cluster with support for ephermeral databases using istio.
- Integrating secrets management with key-rotation support using Hashicorp vault on kubernetes.
- Configuring inter-service communication using kong and istio.
- Setting up modular terraform for multi-region cluster and microservices deployment in on Azure and AWS.
- Setting up CI/CD pipelines on Jenkins & Azure DevOps.
- Experience using multiple AWS/Azure cloud services like Codebuild, EKS, S3, VPC, EC2, ELB, IAM, SES, CloudWatch etc.

Auquan Ltd. (Finance Sector) — Bengaluru, India (Part-time)
Sr. Full-Stack Engineer — *May 2021 — July 2021*

- Building data pipelines for financial news collection from several search engines
- Redesigned interface for complex graph visualizations between entities
- Maintaining and deploying data pipelines to AWS ECS

Viper Development UG [now FounderBlocks] (Multiple sectors) — Hamburg, Germany
Sr. Full-Stack Engineer — *July 2018 — June 2022*

Skynet MCANISM (Ad-tracking platform)
- Improved API response times by 20 times on report generation pipelines
- Reduced database clutter with flat hypertables using time-partitioning on TimescaleDB
- Designed a reusable filtering architecture in django for report generation
- Managed container orchestration using kubernetes and deploying final applications on GCP
- Actively participated in data recovery, production release monitoring, rollback and debugging k8s microservices on GCP
- Worked on scripts for CI/CD pipelines, database snapshots, blob storage backups and access key rotation

Pandas ZF (Human Machine Interfaces)
- Developed a real-time IOT focused web application to collect telematics information from automobile suspension kits
- Extended the real-time data platform to provide historical ride quality information on selected roads

myndpaar.de (Mental Health / Counselling)
- Wire-framing and building a cross platform mobile application for couples counseling in association with myndwerk GmbH
- Engaging users to perform various activities using automated push notifications
- Added in-app payments support for monthly subscriptions

GitMate UG (Developer tools)   **Hamburg, Germany (Part-time)**
Full-Stack Engineer / Developer Tools   *Dec 2016 — July 2018*
- Helped in building a multilingual code linter that supports multiple languages using a single config file
- Built a linting and codesmell detection pipeline from scratch to manage continuous integration for several customers
- Designed an open-source reusable plugin architecture to link the linting pipeline to several cloud based Git-hosting services
- Worked on a duplicate issue detection plugin to identify closely matching issues on GitHub projects

Wipro Business Solutions (Internship)   **Bengaluru, India**
Software Engineering Intern   *May 2017 — June 2017*
- Designed a native Android application to manage ONVIF compliant cameras
- Added Android Auto support to connect with rear parking cameras in automobiles

EDUCATION

MS, CS - *University of Illinois at Chicago*   2019 — 2021
B.Tech, CSE - *National Institute of Technology, Durgapur*   2014 — 2018

AWARDS & ACTIVITIES

Mozilla Open Source Support Awardee [Report]   2018
Mentor, Google Summer of Code   2018
Mentor, Google Code-In   2018
Mentor, Google Code-In   2017
Student, Google Summer of Code [Report]   2017
Mentor, IIT Kharagpur Winter of Code   2017
Open Source Workshops at NIT Durgapur: Admin & Mentor   2016 — 2017