Vishal **ChandraSekar**

Software Engineer

Kerla, India

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"Simplicity is the soul of efficiency."

Summary

Experienced Software Engineer with a 7-year track record in the realm of backend development with specializing in crafting efficient and scalable infrastructure solutions. Adept at crafting robust and scalable solutions that power the core functionalities of applications. Thrives on tailoring and fine-tuning development setups for maximum efficiency and productivity. An unyielding problem solver who relishes tackling intricate challenges and stays attuned to emerging technologies and tools. Possesses a relentless hunger for knowledge, evident through the continuous acquisition of diverse technical proficiencies over the years.

Skills

Programming	Python, Dart, Bash, JavaScript, YAML
Web	Django with Python, Vue, Flutter, Flask, FastAPI, Celery, Express
Database	PostgreSQL, MySQL, Redis, MongoDB, DynamoDB
Tools	Docker, Azure, AWS, Git, Lambda, Jenkins, GitlabCi, S3, CloudWatch, ECS, EC2, SQS, SNS, Lambda, Kubernetes, eks, Kafka

Work Experience

Cashgrail Pvt Ltd.

Gurugram, India

Senior Data Engineer - Development

Jun. 2022 - Present

- Managed and Led Engineering Teams: Successfully led and managed a team of engineers working concurrently on multiple projects.
- Integrated Machine Learning Algorithms: Seamlessly integrated multiple machine learning algorithms into existing products, enhancing their capabilities.
- Architected Scalable RESTful APIs: Designed and implemented high-performance RESTful API servers, supporting various algorithms and efficiently processing millions of data points.
- Orchestrated Scalable ML Servers: Orchestrated the provisioning of scalable servers within Kubernetes to execute diverse machine learning algorithms, optimizing resource utilization.
- Ensured ML Infrastructure Reliability: Ensured the high-availability, fault tolerance, and auto-scaling of machine learning infrastructure in Kubernetes, maintaining optimal performance.
- Collaborated on Fraud Detection System: Collaborated across teams to successfully implement a robust fraud detection system utilizing GraphDB technology.
- Established Data Consistency System: Developed and integrated a sophisticated data consistency system, ensuring seamless synchronization between multiple databases and big data platforms.

Biofourmis Inc. *Bengaluru, India*

Technical Lead - Development *Aug. 2020 - Jun 2022*

- Led Multi-Functional Team: Successfully managed and led an engineering team responsible for RESTful API Server, WebSocket, and IoT Hub endpoint development.
- Integrated Cutting-Edge Algorithms: Seamlessly integrated diverse research algorithms and projects into existing products, enhancing functionality.
- Architected High-Performance APIs: Designed a robust RESTful API server to visualize millions of patient data points effectively. Orchestrated Scalable Servers: Provisioned and managed scalable servers, including RESTful, WebSocket, and IoT Hub endpoints, within Kubernetes for efficient algorithm execution.
- Ensured Backend Reliability: Maintained backend layer with a focus on high availability, fault tolerance, and auto-scaling infrastructure within Kubernetes.
- Transformed Monolith to Microservices: Strategically refactored large monolithic apps into pluggable microservices for enhanced modularity. Optimized Stack and Reduced Costs: Successfully migrated the existing EC2 stack to Kubernetes, reducing AWS costs by 30% while improving overall server usability.
- Enhanced Architecture with Sentry: Pioneered the integration of Sentry, significantly improving the architecture of both backend and frontend layers.
- Empowered Real-Time Data Streaming: Orchestrated a real-time data streaming service for plotting ECG data, vital for active patient monitoring. Designed Patient Data Rule Engine: Devised a real-time rule engine utilizing patient data for passive patient monitoring, contributing to better healthcare outcomes.
- Managed Migration to Open Source: Played a pivotal role in transitioning applications from AWS managed services to self-managed open-source services.

LEO'S WORKSHOP (OPC) PRIVATE Ltd. *Bengaluru, India*

Software Engineer *Jun. 2018 - Aug 2020*

- Led Progressive Web & API Team: Managed and led a software development team specializing in Progressive Web Applications and RESTful API Server.
- Architected Scalable Infrastructure: Designed the architecture for RESTful API and web servers, enabling successful deployment of the WagStays app on Google Play and App Store.
- Streamlined Hybrid Infrastructure: Implemented a hybrid infrastructure (Amazon AWS + Heroku) with GitLab and Serverless Framework, achieving a remarkable 5x reduction in average deployment time.
- Engineered Robust Service Infrastructure: Constructed and deployed service infrastructure utilizing Docker containers, GitLab CI, and various AWS components (EC2, ECS, Route 53, S3, CloudFront, RDS, ElastiCache, IAM). Emphasized high availability, fault tolerance, and auto-scaling.
- Developed API Microservices: Created multiple API microservices using Python within AWS Lambda functions.
- Established Centralized Logging: Deployed a centralized logging environment leveraging CloudWatch and S3, efficiently collecting log data from Docker containers and AWS resources.
- Enhanced Real-Time Messaging: Orchestrated a Real-Time Messaging application employing web sockets, contributing to a 40% increase in user interaction.
- Engineered Reminder Engine: Designed a Reminder Engine using django-celery, Celery Beat, SNS, and SES, reducing non-responsive users by 20%.
- Implemented Proximity Algorithm: Successfully implemented a proximity-based algorithm for discovering nearby places based on user location.
- Developed Seamless Payment Module: Created a user-friendly Payment module for web and mobile, seamlessly integrating with major Payment Gateway companies in India.

Omega Health Care PRIVATE Ltd.

Bengaluru, India

Software Engineer

OCT. 2016 - Jun. 2018

- Reverse-Engineered Legacy Modules: Analyzed legacy modules of a business-critical web application, revealing and validating previously undocumented functional and non-functional requirements.
- Enhanced Django Admin for Reports: Customized the Django admin interface to generate reports based on various metrics, improving data-driven decision-making.
- Designed Dynamic Work Allocation Algorithm: Developed an algorithm that dynamically allocates work based on user efficiency, resulting in a 20% increase in employee productivity.
- Utilized RESTful Web Services: Utilized RESTful web services to expose specific functionalities of the application, enhancing interoperability.
- Contributed to Application Enhancement: Participated in coding, testing, and the creation of functional specifications for application enhancements.
- Implemented Vue and Axios: Integrated Vue.js and Axios for seamless asynchronous communication with the server, enhancing overall user experience.

DropTaxie PRIVATE Ltd.

Chennai , India

Freelance Software Engineer

May. 2016, - Oct. 2016

- Implemented Backend API server for a car rental booking application(Droptaxie in Google Play).
- Designed an Optimal Driver allocation algorithm Which resulted in increase of fuel efficiency and reduction in driver time by 30%.
- Simplified the user booking flow which resulted in increase in number of users to confirmed booking ratio by 25%.
- Built fully automated CI/CD pipelines on GItlabCI for containerized applications using Docker.
- Built and deployed overall service infrastructure utilizing Docker container, Google Cloud compute.
- Integrated Google Places API, Google Maps Distance Matrix API in Application.
- Developed an easy-to-use Payment module which connects to major PG(Payment Gateway) companies in India.

Education

Madha Engineering College)

Chennai, India

Bachelor of Technology in Information Technology

Jul. 2012 - Mar. 2016