

Manish Kumar

ENGINEERING LEADER · SOFTWARE ENGINEER

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Summary

A Computer Science and Engineering graduate from IIT Bombay, with more than 19 years of experience in software development. Designed and developed SaaS and desktop products end-to-end. Hired, mentored, led teams to create robust and profitable products from scratch.

Education

IIT Bombay(Indian Institute of Technology Bombay)

Mumbai, India

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING

Jul. 2000 - Aug. 2004

Skills

Programming Languages Rust, Go, Scala, Python, C++, JavaScript

Databases Amazon DynamoDB, Apache Cassandra, MongoDB, MySQL, PostgreSQL, Redis, Scylla

Software Tools Akka, Apache Kafka, AWS Lambda, Axum, Docker, Django, Elasticsearch, GraphQL, go-resty, gRPC, React

Work Experience

Maitch Inc

NJ, USA(Remote)

HEAD OF ENGINEERING

Oct. 2023 - Present

- Recommendation System
 - Building a recommendation system using linear optimization that can handle large-scale data much more efficiently than traditional methods.
- Technologies: Rust, PostgreSQL, Redis, AWS, Docker, Linear Programming*

Screen Magic Mobile Media Pvt. Ltd.

Pune, India

SOFTWARE CONSULTANT

Nov. 2022 - Sep. 2023

- Messaging Platform
 - Migrated the existing messaging platform from a monolithic architecture to a microservices-based architecture.
 - It reduced the cost of infrastructure by 50% and improved the performance of the platform by 30%.
- Technologies: AWS Lambda, Python, MySQL, Redis*

Turing Inc

CA, USA(Remote)

SOFTWARE ENGINEER

Apr. 2020 - Sep. 2023

- Supply Chain Product
 - Built a supply chain product to streamline inventory procurement and management for the client's manufacturing plants.
 - It improved the efficiency of the supply chain by 30% over existing systems.
- Technologies: AWS Lambda, Python, GraphQL*

Setuserv Info. Pvt. Ltd.

Hyderabad, India

PRINCIPAL SOFTWARE ENGINEER

Aug. 2018 - Mar. 2020

- Text Analytics System
 - Designed a service architecture for an NLP-based text analytics SaaS product using a microservices approach.
 - Established an end-to-end pipeline infrastructure on AWS, incorporating multi-node Kafka, Cassandra/Scylla, a web crawler, and other critical services.
 - Built a RESTful API to enable end-users to access data, while internal micro-services communicated through gRPC API.
 - Created a user-friendly web portal for visualizing analytics, offering thousands of filters to generate millions of possible combinations.
 - Led and managed a team of six engineers throughout the project.
- Technologies: AWS, Go, Python, Docker, Kafka, Cassandra, Scylla, gRPC, Redis, PostgreSQL*

Ebizon Net Info Pvt. Ltd.

Noida, India

CTO/TECHNICAL ARCHITECT

Jul. 2015 - Jul. 2018

- E-commerce SaaS Products
 - Built PushFlew, a SaaS product tailored for small and medium-sized enterprises, focusing on customer life-cycle management.
 - Built AppifyCart, a SaaS product designed for e-commerce companies to build and manage mobile apps for iOS and Android.
 - Streamlined the process of app creation by allowing users to upload basic details and API keys for their e-commerce store.
 - It empowered users to manage app features, including payment gateways and shipping methods, after app deployment to app stores.
 - It reduced the time to market for mobile apps by 50%.

Technologies: Scala, PostgreSQL, MongoDB, Redis, Docker, AWS

Geometric Ltd.

Pune, India

TECHNICAL SPECIALIST

Apr. 2010 - Jul. 2014

- Simulation of virtual cloths
 - Led a team of five engineers in the development of a cloth simulation engine.
 - Implemented advanced physics and geometry algorithms for realistic virtual cloth simulation.
 - Leveraged GPU computing for efficient and high-performance cloth simulations.
 - The product was used by the fashion industry for virtual cloth design and simulation and one of the earliest products in the market.

Technologies: C++, CUDA, OpenGL

PayPal IDC

Chennai, India

SOFTWARE ENGINEER

Oct. 2007 - Mar. 2010

- Automated risk mitigation payments
 - Built risk mitigation products for PayPal Payments.
 - Implemented a rules-engine for Payment stream and batch processing.
 - It saved the 100s of thousands of dollars in payments with fraudulent transactions.

Technologies: C++, Python, Oracle DB

Geometric Ltd.

Pune, India

SOFTWARE ENGINEER

Jan. 2005 - Sep. 2007

- PreClassA Library
 - Built PreClassA Library for automated Class A Surface creation.
 - Implemented an optimization module using Quadratic Programming.
 - It reduced the time to create Class A surfaces by 80%.

Technologies: C++, Quadratic Programming

IIT Bombay

Mumbai, India

JUNIOR RESEARCH FELLOW

Aug. 2004 - Jan. 2005

- Optimization in CAGD
 - Conducted research in Computer-Aided Geometric Design (CAGD).
 - Achieved successful automation of Class A surface creation.

Technologies: C++, Quadratic Programming