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Summary

A Computer Science and Engineering graduate from IIT Bombay, with more than 18 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++, C#, Swift, TypeScript

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

Software Tools Akka, Apache Kafka, AWS Lambda, Axum, Docker, Django, GraphQL, gRPC, Play Framework, React, Tonic

Work Experience _____

Maitch Inc NJ, USA(Remote)

HEAD OF ENGINEERING Oct. 2023 - Present

· Recommendation System

- Building a recommendation system intended for application across various e-commerce platforms.
- Utilizing Rust for high-performance and secure development.

CA, USA(Remote)

Turing Inc

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.
 - Implemented a robust system using Python to enhance the supply chain operations.
 - Leveraged AWS services for scalable and reliable infrastructure.
 - Designed and implemented a GraphQL-based interface for efficient data querying and manipulation.
 - Utilized DynamoDB for secure and efficient data storage.
 - Utilized AWS Lambda for serverless computing.
 - Utilized OpenSearch for efficient data querying.

The project was a resounding success, contributing to the optimization of the client's manufacturing operations.

- CRM
 - Built a CRM product for lawyer data management in the USA and Canada.
 - Built REST and GraphQL APIs using Python and Django, facilitating integration with multiple platforms.
 - Utilized PostgreSQL and Redis for efficient data storage.
 - Implemented a microservices architecture to gather and analyze data from various sources, including phone and email services.
 - Built the core functionalities of the CRM using Python.

Successfully deployed and adopted by thousands of lawyers in the USA and Canada.

Setusery 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.

Successfully delivered the project, providing a powerful text analytics solution with a user-friendly interface and robust infrastructure.

Ebizon Net Info Pvt. Ltd.

Noida, India

CTO/Technical Architect

Jul. 2015 - Jul. 2018

- PushFlew
 - Built PushFlew, a SaaS product tailored for small and medium-sized enterprises, focusing on customer life-cycle management.
 - Provided push and email notification services for web applications.
 - Implemented public-private key pairs for each registered website, with the public key stored client-side using a JavaScript plugin for service worker registration.
 - Utilized a private key on the backend for secure push notification payload signing.
 - Incorporated features such as automated pushes from RSS feeds and e-commerce-specific activities like cart abandonment and shipping notifications.
 - Employed Scala for various backend functionalities.
 - Utilized PostgreSQL and Redis for efficient data storage.
 - Ensured consistent deployment through containerization.
 - Designed RESTful APIs for seamless integration.
 - Developed a JavaScript plugin for client-side integration.

Successfully delivered PushFlew, a versatile customer life-cycle management solution for web applications.

- AppifyCart
 - 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.
 - Empowered users to manage app features, including payment gateways and shipping methods, after app deployment to app stores.
 - Utilized Scala for critical backend components.
 - Managed data using PostgreSQL and MongoDB for specific data requirements.
 - Supported both iOS and Android app development.
 - Designed RESTful APIs for seamless integration with e-commerce platforms.

Successfully delivered AppifyCart, a user-friendly SaaS solution for building and managing mobile apps for e-commerce companies.

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.
 - Integrated the simulation APIs with a user-friendly interface using WPF (Windows Presentation Foundation) and OpenGL.
 - Established a shared memory system to facilitate seamless data transfer between the CPU, GPU, and visualization components.
 - Utilized C++ for the core development of the cloth simulation engine.

Successfully delivered a cloth simulation engine that is in active use by clients, enabling realistic virtual cloth simulations for various applications.

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.
 - Built an address normalization product to verify addresses and reduce risk.
 - Designed batch processing tools to analyze payment and risk data.
 - Presented the analyzed data through a visual dashboard.
 - Utilized C++ and Python for software development.

The product is actively used in processing millions of USD daily, effectively mitigating risk in PayPal Payments. This employment was through a third-party vendor, CSC India Pvt. Ltd.

Geometric Ltd. Pune, India

SOFTWARE ENGINEER

Jan. 2005 - Sep. 2007

· PreClassA Library

PayPal IDC

- Built PreClassA Library for automated Class A Surface creation.
- Implemented an optimization module using Quadratic Programming.
- Designed a feature for merging multiple Class A surfaces with g2 continuity.
- Utilized C++ for software development, enabling efficient surface creation and optimization.

The product is widely used in modern automobile design, streamlining the process of creating Class A surfaces for automotive products.

IIT Bombay Mumbai, India

JUNIOR RESEARCH FELLOW

Aug. 2004 - Jan. 2005

Chennai, India

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

Implemented the research findings into software solutions benefiting the automotive industry.