

Suvish Thoovamalayil

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Software Design and Engineering

A driven **software engineer** aspiring to make great strides in construction of testable and efficient programs that makes a difference. Goes to great lengths to achieve perfection in design, architecture and automation of software. Possesses practical knowledge of working with large codebases and longterm projects. Thrives by working on cutting-edge technologies. Core competencies include:

Backend Engineering | Mobile Application Development | DevOps | Code Testability and Reusability | Delivery Automation | Code Refactoring | Single Page Applications | Test Driven Development | Scalable Systems

Technical Skills

Programming Languages

A generalist, who picks up new languages very quickly, believes that using the right tool for the job at hand is very important. Has worked professionally with the following languages: **Java (Spring Boot / Android)**, **JavaScript (client and server)**, **Swift**, **Kotlin**, **Ruby**, **Go**, **Python** and **C**. Also has picked up the following languages for side projects and learning: **Rust**, **Haskell**, **Scheme**, **Erlang** and **Crystal**.

Tools and Frameworks

Has extensive experience with databases like **MongoDB**, **Cassandra**, **PostgreSQL**, **MySQL**, **SQLite**, **redis** and **RethinkDB**. Implemented and used in production frameworks like **Spring Boot**, **Ruby on Rails**, **Sinatra**, **ExpressJS**, **ReactJS**, **AngularJS** and **SocketIO**.

DevOps

A passionate advocate for DevOps, played an important role in setting up the foundational infrastructure for all projects involved. Has hands-on expertise in implementing **Continuous Integration / Continuous Delivery** using **Go.CD** and **Jenkins**. Has worked with containerisation over the years with **Docker** and **Kubernetes**. Was an early adopter of Cloud Platforms like **Amazon WebServices**, **Google Cloud** and **Digital Ocean**. Lead teams to deliver Infrastructure-as-Code using tools like **Terraform**, **Ansible** and **Helm**.

Agile Software Engineering

Having adopted the agile mindset, understands the value of **tighter feedback loops** and **incremental software delivery**. Proactively steers teams toward inculcating these values and helping practice in day to day delivery. Believes that agility is more than just implementing a process, it is a mindset change that requires re-thinking your fundamental assumptions.

Professional Experience

Technical Architect | [Contentstack](#) | Pune, India - Remote | 2020 - Present

JAMStack Hosting Platform

Setup a team from scratch to build a JAMStack hosting platform that allows you to deploy websites painlessly. Led the team to architect, plan, estimate and deliver the product. Groomed team members to create a self managing and self driving team that works autonomously on all fronts including project management, architecture, ops, etc.

Technologies used: NestJS, Golang, ReactJS, Redux, MongoDB, Kubernetes

Auth platform

Led the team to architect a microservices based, multi-product solution for authentication and authorization. The solution included using cloud native technologies to deliver distributed, low latency and scalable access control for the entire set of microservices.

Technologies used: Golang, NestJS, ReactJS, Redux, Istio, Redis, Kubernetes

Personalization product

Setup a team from scratch to create a Personalization product that allows you to personalize your content easily. Led the team to understand the domain, do competitive analysis, come up with an initial demoable product that was further iterated on and evolved to a MVP. Some accomplishments on the way: introduced team ownership of quality assurance, value stream based pipelines that automatically deploy each change to production, distributed deployments, self managing teams, etc.

Technologies used: NestJS, ReactJS, Redux, Istio, Redis, Kubernetes, GoCD

Sr. Consultant | [Mavericks Consulting](#) | Singapore | 2018 - Present

Banking - Digital Bank

Worked with one of the largest banks in South East Asia to develop a Digital Bank. Helped create enhancements for the digital onboarding module. Developed a platform for partner integrations. Mentored and collaborated with the team to inculcate best practices like TDD.

Technologies used: Java 8, Spring Boot, iOS with Swift, Android with Kotlin

Banking - Mobile Wallet App

Worked with the largest bank in South East Asia to add new features to their consumer focussed mobile wallet. Organised inception and workshops to kick-start a partner integration system from the ground-up with business stakeholders. Apart from day-to-day delivery, collaborated with business users and tracked teams's progress, risks and blockers. Championed best practices such as CI/CD, Test Driven Development, Infrastructure-As-Code and automation.

Technologies used: Java 8, Spring Boot, iOS with Swift, Android, JavaScript, Pivotal Cloud Foundry, ReactJS/Redux

Incident Management App for a Special Needs school

Worked on a mobile app for managing incidents relating to breakdowns and repairs for the school. The app works on both Android and iOS, delivered using React Native. Responsible for building the CI pipeline, several features were built from scratch iteratively.

Technologies used: Rails, JavaScript, React, Redux, Kubernetes, ELK Stack, Android, iOS, Swift, React Native, GoCD, Ansible

Sr. Consultant | [ThoughtWorks](#) | Pune, India | 2015 - 2018

Transport Management

Worked with one of the largest retailers on their Digital Readiness programme to revamp transport management of orders to customers. As a tech lead in the team, improved parity of work for offshore, plays key role in architecting and implementing a rewrite of the entire backend system from the ground up.

Technologies used: Java 8, JavaScript, Node.js, React, Redux, Reflux, Cassandra, SOLR, Kubernetes, Docker

CRM - Mobile Web App

Worked with one of the largest retailers in the world to create an application that can be used by their sales managers to keep track of customers and increase revenues via analytics and insights from buying patterns.

Technologies used: Java 8, JavaScript, Kubernetes, Docker, React, Redux, Reflux, Mobile Web, Cassandra

Banking - Core Banking

Worked with a large banking corporation in Australia. With an objective of transforming their tech delivery systems, took part in re-engineering the release and build processes.

Technologies used: Gradle, Maven, Java, GO.CD, Shell Scripting, Jenkins CI/CD

Real-Estate - Mobile App

Worked with one of the fastest growing companies on the Indian startup scene. Objective was to deliver a strategically important application service as a mobile application. Gained experience on the Android platform.

Technologies used: Android, Realm DB, Java 8, Ruby

Sr. Application Engineer | [raw engineering](#) | Mumbai, India | 2011 - 2015

Worked for the product section of the company. Played a major role in engineering the backend and infrastructure of the product, [built.io](#), from its inception onwards. built.io is an mBaaS (mobile-Backend-as-a-Service) solution.

While the primary focus has been on engineering the backend, various roles were donned in the course of development of built.io. These include decisive roles in sharding (horizontal partitioning) of the database, ops, client side apps developed on top of built.io, SDK development, etc.

Oversaw the evolution of the product over the years into an [award winning](#), enterprise solution that provides services for Fortune 100 companies. built.io now underpins virtually every product or service offered by the company.

In a former role, wrote high-performance cloud services in the C language for a consumer robotics client.

Education

Master of Science in Information Technology
University of Mumbai | 2014

Bachelor of Science in Information Technology
University of Mumbai | 2012

Personal Meta

Likes to explore nature, trekking and travelling whenever possible. Advocates free thinking and adopting an open-minded approach to anything new. Loves to read up on history, anthropology and language. Always on the lookout for the next in all things technology.