

RAHUL RAMTEKE

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SOFTWARE ENGINEER (By Day)

CREATOR / ARTIST / THINKER (By Night)

GIST

Through childhood and adolescence, I have always been about making things. Be it little toys from cardboard or 2D games in my school's computer lab.

I have worked in different technologies, worked for a tech non profit, tried my hands at my own startup, built fundamental architecture and pipelines at my first company. All in all, I have learnt and I have built, and I have loved every aspect of it.

And when I am not learning and building, I am writing. I love to share and teach. Enabling people to add value makes me immensely happy.

EDUCATION

School:

Ramjas School, Karol Bagh, New Delhi

College:

BTECH in Software Engineering from DELHI TECHNOLOGICAL UNIVERSITY

CONTACT INFORMATION

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PERSONAL ACHIEVEMENTS

Part of team which won GITEX 2014

Leaf Labs was my first experience in a startup. It involved creating a safety device which could track the wearer and alert authorities when needed.

My role was to create a prototype android application which can be used to track the phone even without internet.

Amethyst Labs

I started this project/company with my batchmates. It involved creating a fallback hyperlocal but decentralized network. It's applications varied from P2P music sharing to heavy analytics on an area like metro station.

SPECIAL SKILLS

- Proficient in JavaScript and Node

- I have in depth knowledge of inner workings
- I have worked on multiple projects which involved a deep dive into JS and Node, such as:
 - A recursive proxy
 - A tool to monitor changes in objects

- A polyglot programmer

- I have worked on and tried many languages:
 - JavaScript, Scala, JAVA, Python, Go, Crystal

- Architecture and Design

- There's nothing I enjoy more than writing terse code built atop scalable and generic architecture.

- Functional Programming

- A true believer of functional paradigm
- Read, learnt and took sessions on category theory

- Processing

- Creating art using code is one of my favorite past times.

EXPERIENCE

Leaf Labs

INTERN, 2014

- Worked on Android and explored its fundamentals
- Worked on backend for a brief time

Amethyst Labs

COFOUNDER, 2015

- Worked on Android application
- Created the algorithm for a decentralized network using just phones.
- Created the prototype using Scala on Android
- Handled design and face of product

Shipsy

SOFTWARE ENGINEER, 2017

- Revamped mongo data analytics pipeline, made it **twice as efficient**.
 - Heavy index usage and data migration
 - Used latest features of mongo, like facets etc.
- Built a scalable **architecture to handle multitenancy**
 - Our old service was a mess and to scale it would have required huge amount of efforts.
 - After some research, I decided on **NestJS**, and built the service from scratch
- Setup **error monitoring pipeline**
 - Our organisation lacked a central place to monitor errors and hence limited our ability to react to them.
 - I setup **Sentry** and integrated it into our services to solve this problem
- Pushed for adoption of TypeScript
 - Going through the original code made me realize the value of type safety
 - We had bugs in production which could have been easily avoided.
 - In light of this, the **service I made was written in TypeScript**.
 - I **actively took sessions** to teach my colleagues about its virtues.
- Built a powerful and abstract data analytics pipeline
 - Inspired by Apache Superset
 - Designed and built a query builder to handle the scale and be generic at the same time

INTERESTING PROJECTS

ZEAL

Delving deep inside Node.JS, I wanted to create a public radio service where you login and stream other people's speaker output or broadcast your own audio. The system relied on websockets for streaming purposes and PubNub for broadcasting messages.

Dyna

It's a cheap Jarvis knockoff actually. The system can listen for your commands and obeys accordingly. You can ask it to play music, ask basic question or control your laptop.

Awkward: 450+ stars on Github

A terminal emulator which is based on a very simple idea, JavaScript should be used everywhere including your terminal. The project involved parsing linux command outputs, and applying JS functions on the result

FuncShell: 250+ stars on Github

A different approach but the basic idea is same as Awkward, except this time there's no terminal emulator, just a linux command, and the language is Haskell. I also added plugin support to this project which was difficult and new for me.

Voice authentication in 4 lines of code

It's a simple script which assumes you have an android phone connected along with ADB access. I noticed that whenever I said 'Ok Google' to my phone, it always logged a special string. This script scans for that special string in ADB log output. If that string is encountered, authentication is completed.

Public Clipboard

It's a tool which captures the data you copied and makes it accessible on your network. Through this project, I worked on BackboneJS and sockets for the first time.