Anoop Santhanam

Principal Engineer

Remote

anoop.santhanam@gmail.com

github.com/stonebinox?tab=repositories

linkedin.com/in/anoop-1507/

Summary

Over the years, I've been a **senior software engineer**, **team lead**, **principal engineer**, and **entrepreneur**. During this time, I've had the opportunity to build several platforms and mobile apps from ground up. I've built platforms for construction workers, e-sports, recruitment, real estate management, doctors, pathologists, e-commerce, logistics, chatbots, and a whole lot more.

I started a company in 2011 in my second year of college. Was featured in Bangalore Mirror, YourStory, Deccan Chronicle, and more. My startup was successfully acquired by Google funded company after an incredible journey of 5 years!

Currently working remotely and loving it.

Work History

Principal Engineer   2023 - Present

Fearn Co

A platform to help resellers manage their inventory across multiple marketplaces in one place. Worked as the only developer for over 9 months before hiring a team while building everything: devOps, FE with React, BE with Express, Chrome Extension, and database with MySQL to interface with official and unofficial APIs from Ebay, Poshmark, Etsy, and Mercari. Currently managing a team of 5 and running agile sprints.

Team Lead - Marketing / Growth Engineer   2021 - 2023

Andela

A global workforce and recruitment platform for tech. All public pages of the website were under my purview; was instrumental in setting up sign up flows to drive conversion, got the entire website rebranded and re-architectured with a new tech stack and managed a team of 6 engineers alongside other non-technical members.

Team Lead   2018 - 2021

Players' Lounge (ex Y-Combinator)

Players' Lounge is a platform for gamers to challenge each other, play against each other on all gaming consoles, and make money by winning. Joining soon after they were out of YC, I was instrumental in planning and building a new tech stack to transition from their legacy PHP site to a new NextJS/React Native-ExpressJS-GraphQL-MongoDB setup alongside other duties to coordinate and setup growth related features. I led the team behind the core offering that generated over $80k revenue per day while managing tasks with Jira.

Senior Software Engineer   2017 - 2018

Spectral Insights India Pvt Ltd

A digital imaging and analysis product-service suite for diagnostic labs, pathologists, doctors, and hospitals. I was the first web engineer on the team and was responsible for planning, designing, and developing several licence-based services along with a hybrid web framework that could be shipped along with their proprietary device.

Principal Engineer   2017 - 2018

Dust

Dust is a platform that helps non-technical founders connect with developers to launch their MVPs in five days for less than $700. I built the entire platform while also working on several projects and managing our growing pool of developers and their projects. I also ended up being the project manager on several projects by running agile sprints with Jira.

CEO and Founder · 2012 - 2017

Binox

Binox is an operating system for the internet. This was my brainchild - a cloud based OS operated via a browser for free. I hired, managed, and developed a ton of what the company had to offer. Was **acquired** in 2017 after the success of our logistics app that was built on top the framework of the OS.

Freelancer · 2011 - Present

Self Employed

I have freelanced on several web projects and native apps. I've been a designer, project manager, full stack developer, consultant, and more on a ton of projects during my time. I handled several short term projects during my free time.

Skills

React (Web + Native)

Typescript, NextJS, GatsbyJS, Redux, MobX

NodeJS

Express, NestJS, AWS Lambda

MongoDB

Robo3T, Mongo Clusters

SQL

MySQL and PostGresSQL

Artificial Intelligence (AI)

OpenAI, Anthropic, ML Fundamentals

CSS/HTML

Tailwind, Styled Components, Webflow, Less/SASS/SCSS, and Bootstrap.

PHP

Yii, Silex, Laravel, and Symfony

Python

Django, FastAPI

GraphQL

GraphQL with Apollo/NodeJS

Other skills

Webpack, Git, agile, Jira, Asana, Marketo, Flutter, Figma, Contentful, Kotlin, Cordova Phonegap, Adobe Photoshop, Photography, Ruby on Rails

Mentions in the Media

The dare deliverer!   14th Nov, 2016

Deccan Chronicle

http://www.deccanchronicle.com/lifestyle/viral-and-trending/141116/the-dare-deliverer.html

Three CS grads hope to create a hub for everything you do on the Internet. They call it Binox.   20th Dec, 2013

Yourstory

https://yourstory.com/2013/12/binox/

City Boys Create Networking Site With A Dislike Button   26th Aug, 2012

Bangalore Mirror

http://bangaloremirror.indiatimes.com/bangalore/others/City-boys-create-networking-site-with-a-dislike-button/articleshow/21322680.cms

Education

Master of Science in Computer Science   2014 - 2016

Christ University, Bangalore (Deemed University)

I studied alongside other working professionals and learnt more about company processes and current IT process mechanisms while fine-tuning my coding skills.

Bachelor in Computer Applications   2010 - 2013

National Degree College, Bangalore (affiliated to Bangalore University)

Started my first company in my second year of college and grew with it until it was acquired five years later. I learnt invaluable lessons and skills during this stage.

Spoken Languages

English (Fluent), Kannada (Fluent), Tamil (Fluent), and Spanish (beginner)

Some Projects (40+)

Meen Motors

For an upcoming electric car company in the city, I built several parts of their tech: AI for their vehicular OS, their website, and the official Meen app. The website was built using **Squarespace**, while the AI and backend for the OS was built using **OpenAI**, **React**, **Typescript**, **ExpressJS**, **MongoDB**, and **Netlify**; the app was built with **React Native** and **Typescript**. Site: https://meenmotors.in

Fearn

Managed the entire tech stack for Fearn; a marketplace management platform for resellers selling across Etsy, Poshmark, Ebay, and Mercari. This was built with **ReactJS**, **Gatsby**, **NodeJS**, **Python**, **MySQL**, **AWS**, and used a **Chrome Extension**. Site: https://fearn.co

The Soap Class Bali

Built a website for a soap and bath products making instruction company from Indonesia. The site allows for people to signup to classes and to see videos from earlier classes if you've got a secret code for it. This is being developed with **ReactJS**, **Gatsby**, **Redux**, and **Contentful**.

Aurora Designs

Developed a simple single page website as a freelance project for a company that's into social media, software development, and EV. This is built with simple **ReactJS**, **CSS**, and **Netlify**. Website: https://auroradesignshq.com

Andela

Help finalise and pick key pieces of the new website architecture. Rebuilt the signup flow for clients and talent from scratch. Oversee code quality and development progress of team building for the entire website. I worked on **Wordpress**, **PHP**, **ReactJS**, **Redux**, **Gatsby**, **Contentful**, **AWS**, **Marketo**, **jQuery**, and a little bit of **MySQL**. Website: https://andela.com

Clean Kitchen platform

Helped develop a Flutter app for a new social platform along with work on their existing site to improve the user experience and performance of the site. I worked on **Flutter (Dart)**, **Kotlin**, **React**, **Python**, **Shopify**, **PostgresSQL**, and some **Java**. https://cleankitchen.ee and yummy.eu; Yummy app: iOS and Android

Dashpivot app

I had the opportunity to head the development of their primary app, Dashpivot, and their secondary app, Sitemate, and work on several features, cleanups, and bug fixes. Sitemate Technologies is an Australian company that provides a platform on both web and mobile to help construction workers and firms better document their workflow and processes. I worked on **React Native**, **Typescript**, **Express**, **Redux**, **NodeJS**, and **MongoDB** for this. Apps available at https://play.google.com/store/apps/details?id=io.constructioncloud&hl=en and https://apps.apple.com/au/app/dashpivot/id1093802452

Wheelpair App

Worked on this as a freelancer and built their initial version (the one live on the app store). Wheelpair is a US based company that offers an app that lets people monitor their vehicles and ensure they get serviced by mechanics around them. Wheelpair serves as an aggregator of mechanics for users to take advantage of - additionally, users can monitor the health of their car via Wheelpair's proprietary OBD port device. Technologies used: **React Native**, **Python**, and **PostgresSQL**. https://apps.apple.com/us/app/wheelpair/id1518505527

WheelPair Mechanic App

Worked on this as a freelancer and build their initial version. WheelPair is a US based company that provides an app to mechanics and users to better understand problems with their cars via the app and to also facilitate transparent servicing for any problems while providing marketing tools to connect mechanics to users. This is the app for mechanics to list their shop with the services and products they sell. I built their Android app (for tablets) using **React Native** and **MobX**. This is currently being installed manually on devices for subscribed mechanics and is not on the Play Store. http://www.wheelpair.com

Players' Lounge Platform

An e-sports platform where people can bet on themselves while playing against other gamers.
Aside from building several features on their site, BE, and iOS app, I've worked on transitioning the legacy PHP codebase to a NodeJS (powered by Express and AWS Lambda) codebase and ReactJS (powered by NextJS). Tech used: **HTML, LESS, jQuery, ReactJS, React Native, XCode, Yii (PHP), Express, NodeJS, Apollo GraphQL, Lambda, MongoDB, AWS, and GitFlow**. iOS app: https://apps.apple.com/gb/app/playerslounge/id1474870497 - Web: https://playerslounge.co

RentPost

A property management platform. I worked extensively on frontend and backend features for the entire platform. Technology used: **Docker, MySQL, PHP (Symfony), AWS, jQuery, CSS, and HTML**. https://rentpost.com/

Novelship E-Commerce Platform

Reselling platform for designer brands. Designed and developed several admin features for this unique e-commerce platform. Tech used: **HTML, SCSS, AureliaJS, NodeJS, MongoDB, and AWS**.

EventHunt

As part of Dust, I worked on a simple platform that allow people to quickly and freely discover online events from around the world. Think WeWorkRemotely for events. I used **ReactJS**, **PHP**, **Heroku**, and **MySQL** for this.

VinAudit

As a freelancer, I've built embeddable widgets for the company. Widgets that help calculate the market value of a vehicle based on mileage, time, and other factors when provided with the vehicle's VIN. Typically, these widgets needed to be built with minimal external dependencies. They were built with **jQuery, CSS, and HTML** while communicating with a **PHP** and **NodeJS** backend. https://www.vinaudit.com

Juggling Jack

Built this as a freelancer for a client who wanted a platform to connect tech generalists to non-technical founders who wanted to make their ideas a reality. Complete with a management dashboard and Stripe payment processing, this was deployed on Heroku, built with **ReactJS, Bootstrap, MySQL, and NodeJS.**

GenTox

Developed a product that allows detection and study of Genotoxicity. The product detects abnormalities and mutations in blood and marks the areas out automatically while providing an additional tool to analyse the marked abnormalities. The abnormalities can be viewed at different focus points to help doctors understand what layer of the smear they belong to. This was built using **MySQL, Silex, AngularJS, Bootstrap, CPP, jQuery, Azure, PaperJS, CSS, HTML, and OpenSeadragon**.

Schema Editor

Developed a customized HTML editor MVP for Schema. It allows the user to edit raw HTML code as well as edit HTML content directly while filtering out unsupported and unaccepted HTML structuring. This project can also be cloned and used as a default editor for other projects since it includes generic support for basic keyboard controls as well. Built using **NodeJS, ReactJS, jQuery, CSS, and HTML**.

Someonew Dashboard MVP

Developed a user and product dashboard for Someonew's product where they could manage user profiles, control site content, and provide the same dashboard for other companies to integrate into their workflow. It also included support for a Slackbot. I built this using **MySQL, Heroku, Silex, ReactJS, Bootstrap, and Firebase**.

Dust Platform

I developed Dust's entire web platform. The previous version had few issues and we decided to revamp everything. From data migration from MongoDB to MySQL and PHP to developing the database and the entire UI with its API calls, I built it. Also integrated Sendgrid's emailing API for Dust Broadcast lists along with Stripe's payment API. I built this using **Heroku, ClearDB MySQL, Marketo, Sendgrid, Twilio, Stripe, Silex, AngularJS, Bootstrap, and AWS S3** for file storage.

FAB! Apparels Billing

A small billing module built for a clothes store in the city. Complete with inventory management, bill generation, and report generation, this was a private project. I built this using **Ruby on Rails, ReactJS, Bootstrap, MySQL, Sendgrid, and Heroku**.

DaDaFund

Built an API that accepts a transaction value, rounds it to the next round figure, calculates the difference and donates the difference to charity. This API can be monitored and plugged into any payment gateway. Users have the option of choosing which charities to send money to and charities are provided with a dashboard to see incoming funds. Built this using **ClearDB MySQL, Heroku, Silex, AngularJS, Bootstrap, Sendgrid, Stripe, and AWS S3**.

Dustpay

A payment module and API on Dust to receive payments and to help the developers of Dust to get paid quickly. Since Dust had developers from around the world - some with minimal or no access to Paypal and similar options - Dustpay solved the problem by integrating multiple payment options into one. Services from Stripe and Paypal all the way to Western Union. I built this using **Stripe API, Paypal API, Western Union services, Xoom services, Ruby on Rails, Marketo, MySQL, and Heroku**.

Dustbot

Dustbot is a bot that can be taught how to answer questions. Dustbot can be taught to communicate with users in a certain fashion, ask questions, process answers, and handle responses. Built as a generic bot with no purpose, Dustbot can be used for anything ranging from support bot to controlling lights and electronic modules. It does this by handling APIs and their responses. I built this using **AngularJS, Bootstrap, Silex, CSS3, MySQL, Sendgrid, and Heroku**.

Sales Intelligence

An analytics webapp built for a client from France. It analyses your emails from Gmail and tells you who you had the best communicative leads with. Meant to be an aiding tool for lead generators, this points out who has responded back to those cold calling emails for a marketer to identify a potential customer. Built using **AngularJS, Bootstrap, Google API, Silex, MySQL, and Heroku**.

Denevents

A webapp for a Denmark based client who wanted an exclusive events portal like Eventbrite for Denmark. I built this using **AngularJS, Bootstrap, Silex, MySQL, Google Maps API, and Heroku**.

Senca

A research webapp for UK based client that displays content as suggestions to people who are composing a research article as they type. It hosts a dashboard for admins to specify data sources to provide it with resources to know where to suggest content from. I built this using **AngularJS, ContentTools, Bootstrap, Web scraping, Silex, MySQL, and Heroku**.

Drag N Check

A webapp built for an Arabian marketing client who wanted a utility for marketing heads and creative heads to specify marketing creatives and share data. The utility not only helps marketers specify the details of what creatives need to be uploaded, but their dimensions, file size, file type, etc. The upload utility also checks the same. I built this using **AngularJS, jQuery, Marketo, SendGrid, Bootstrap, Amazon S3, Silex, Google API, MySQL, and Heroku**.

Renco

A webapp for a Denmark based client who wanted a booking form for customers to book home cleaners. Complete with payment module, billing, and booking form, it was exclusive to Denmark. I built this using **AngularJS, jQuery, Bootstrap, Silex, AJAX, Stripe API, MySQL, and Heroku**.

Full Candidate

A webapp that I worked on at Dust for a Swiss client who wanted a platform for job recruiters to post their requirements and have candidates submit video resumes instead of traditional text based resumes. The candidate is expected to introduce themselves and show off their skills on video and submit it as part of the submission process. Built the entire app using **AngularJS, jQuery, Bootstrap, Silex, Youtube, MySQL, Sendgrid, and Heroku**.

HistoCalc

An analysis tool that helps pathologists and doctors to run algorithms of various kinds to analyse tissue biopsy images and even blood smears. Different algorithms can be chained together to discover a new workflow and derive new insights into histopathology. The entire portal was developed using **MySQL, PHP, AngularJS, jQuery, Bootstrap, CSS, Python, C++, and HTML**.

Chalk

A ground-truth marking training tool for pathologists and doctors alike, Chalk lets instructors/reviewers set up tests with images of pap smears, blood smears, and even tissue biopsies and have them annotated. This data can then be used as a live testing tool for doctors to see if they can identify the marked regions correctly. The entire portal and website was developed using MySQL, **PHP, CSS, HTML, jQuery, OpenSeadragon, paperJS, chartJS, and Adobe Photoshop**.

Spectral Website

Developed, designed, and hosted the company website. The entire website is internally sourced through Spectral Dashboard where the team has access to the website's contents and can change images, textual data, etc. from the dashboard. Languages used: **PHP, MySQL, CSS, jQuery, Javascript, HTML, and Adobe Photoshop**. The entire app runs on **Azure VM** that I set up. Website: http://www.spectralinsights.com/

HemoCalc

A hemotology tool for pathologists to view analysis results of blood such RBCs, WBCs, and platelets among other types of cells. Medical slides of blood smears are used by Spectral Insights' proprietary acquisition module which involves a microscope attached to a camera and spectrometer and images of the slide are acquired. HemoCalc analyses these images, performs classification on the different kinds of cells captured and provides details information on every single cell detected. It also allows pathologists to identify diseases and disorders based on the distribution of WBCs and RBCs in a given blood smear based on normal human blood standards. The entire front-end and analysis modules were developed for both local data viewing as well as to view data on a cloud set up. Languages used: **Python, PHP, MySQL, AJAX, CSS, jQuery, Javascript, HTML, ChartJS, ThreeJS, PaperJS, and OpenSeadragon**.

Spectral Dashboard

Built a cloud-based user and product management dashboard for the entire company to keep track of users, products, and licences. Admins can handle tickets, manage user accounts, generate licence keys, and generate reports of activity happening on any product in the company. Languages used: **PHP, MySQL, CSS, jQuery, Javascript, and HTML**. The entire app runs on **Azure VM** that I set up.

SPIN Vista Cloud

A cloud product for Spectral Insights for viewing deep zoom images for various datasets (mostly medical) was built by me. Included tools to pan, zoom, annotate, crop, manage workspaces, upload large files with an image stitching pipeline, and ability to share workspaces with other participants. Used **MySQL, PHP, jQuery, JS, CSS, and HTML for base tech architecture**. Used **OpenSeadragon, paperjs, and THREE.js** for deep image zoom functionality.

Ecolekt

An e-waste collection app that I developed from scratch for a client. This was an app that allowed people to schedule a pick up of e-waste for proper disposal. In return, they were rewarded with reward points which could be redeemed for coupons for food or shopping. This was built using **Cordova Phonegap, ReactJS, NodeJS, MongoDB, and Bootstrap for CSS**. Archive APK link: https://m.apkpure.com/ecolekt/me.binox.android.ecolekt

Daredeliver

A 24x7 peer to peer same-day delivery service in Bangalore. Conceived the idea, developed it, marketed, and launched by me. Used **Cordova Phonegap, ReactJS, Ruby on Rails, and MySQL**. http://www.daredeliver.com

Eye

Eye is a navigation app that allows you to track your friends and family real-time on a map. It consists of several options to protect one's privacy. Since it contains a social network of its own, nobody can track a person without their consent and without being notified. Existed in the store for Windows Phone for a long time. Developed end to end by me using **Ruby on Rails, MySQL, Visual C#, and XAML**.

Planet Binox

Started a formal online media channel to air video and article content from the Binox team. Developed end to end by me using **MySQL, PHP, JavaScript, CSS,** and **HTML**.

SkyBox

I had to design, code, and decide key factors of SkyBox. Deciding what goes where and what doesn't and what needs to be included is a huge part of what I did for SkyBox. Conceived the idea, developed end-to-end by me using **MySQL, Ruby on Rails, ReactJS, jQuery, JavaScript, CSS, and HTML**.

Binox intOS

Developing an internet Operating system required us to understand the structure of the internet and how it can be improved. Binox intOS organizes the internet, enabling users of the internet to customize their experience, use it effectively, and multitask on the internet with ease. intOS also aims at bridging the gap between the real and virtual world. This was an invention and I have filed a patent for the same in India and US. The intOS is designed primarily around a social network structure with support for users to search an find people they know. Furthermore, the OS had apps that allows users to share pictures, songs, videos, and use all of the other external apps of the internet on one platform. The OS's popular apps are Pictures, Music, Videos, Binox Blogs, Internet Search, BStore, and SkyBox to name a few. Technology stack involved **MySQL, PHP, Ruby on Rails, and CentOS as base architecture**.

Endurance 2015/2016

On January 17th, 2015 and 2016, we organized India's first startup press conference in Koramangala, Bangalore, at TechHub. We invited startups to register for a week and had 30+ startups sign up for an opportunity to talk to India's leading journalists for 30 minutes (per startup). We shortlisted 5 startups and they were given an opportunity to present along with us. I organized and funded the entire event, built the event website for the same, and helped invite journalists to the event. Technology used was **PHP, MySQL, Javascript, HTML, and Adobe Photoshop (for invites)**.

Binox Blogs

Developed and designed a free blogging platform for the Binox IntOS. Technology used was **MySQL, ReactJS, Ruby on Rails, jQuery, Javascript, and HTML**.

Binox Internet Search

Developed an unreleased internet search engine to potentially compete with existing popular search engines. I designed an architecture and method to search the entire internet without having the user enter a search query. This was partially achieved by categorizing and cataloguing all the content our web crawler found. This was built using **PHP, MySQL, Javascript, CSS,** and **HTML.**

Binox Web Services

To facilitate development of projects outsourced to us, we launched Binox Web Services to not only design and develop solutions, but to maintain web servers, design graphics content, and host the web content onto the internet. While I did all of the coding, I occasionally also **designed logos and icons using Adobe Photoshop**.