arvind kumar
software engineer

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📋 summary

I solve real-world problems with software. Over the past 9+ years I've successfully led the engineering of products and initiatives to drive business growth and deliver customer impact. Previously specialized in frontend. Currently specializing in platform engineering and developer tooling.

👔 experience

Clipboard Health - Platform Engineer   📍 Remote | Dec 2022 - Present

- Clipboard Health (YC batch of W17) is a marketplace that allows healthcare professionals to book on-demand shifts and healthcare facilities to access on-demand talent.
- As a platform engineer, I led initiatives and built developer tooling to simplify and standardize engineering processes. These projects spanned feature flags, auth systems, static analysis, database indexing, integration testing, continuous deployments, engineering onboarding and more. These initiatives markedly improved our core metrics for incident time and cycle time throughout the org.
- I've led multiple refactors in the course of these projects.
    - In one case, we refactored 400+ distinct occurrences of feature flag invocations in 2 weeks between 2 engineers.
    - In another case, we raised 125+ pull requests to refactor the modeling for each database collection in 3 weeks between 2 engineers.
- I authored 6 Investment Memos, 5 Technical Design Documents and 3 Best Practice Documents at Clipboard Health.
- The engineering onboarding guide, which I authored and maintain is the most viewed document in the engineering department.

Xkit - Founding Engineer   📍 Remote | Apr 2022 - Dec 2022

- Xkit (YC batch of S18) helped B2B SaaS app developers to deliver deep integrations to customers' CRMs.
- As a founding engineer, I worked primarily on the frontend. I built the CRM Link library which when integrated, allows a web app's customers to map relationships across concepts between the web app and their CRMs. Developers can then use the CRM agnostic Xkit API to directly interact with data in their customers' CRMs.
- I also maintained and built features for our other frontend libraries and products including the Xkit developer portal.

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Page 2 of 3

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Quintype - Lead Engineer · 📍 Bangalore, India | Oct 2020 - Oct 2021

- Led the engineering of Ahead, a customizable frontend on top of the Quintype CMS which grew by 5x in number of customers and 20x in pageviews generated under my leadership.
- Took charge of the effort to improve platform performance and pioneered a server side rendering strategy that is today known as progressive hydration. This resulted in a 2x improvement in pagespeed and core web vital scores across customers.
- Reduced reported bugs by 18x and consequently improved metrics on customer retention:
  - Called attention to stability issues and obtained buy-in from management to address it.
  - Balanced tech debt cleanup alongside building new features in a sprint.
  - Bridged gaps in the QA process by introducing designer acceptance sign-off and prioritized writing of automated end-to-end test scenarios.
- Mentored a team of six engineers with biweekly one on ones to discuss interests, growth and learning paths.

Independent Consultant · 📍 Remote | Sep 2015 - Oct 2020

Clientele include over a dozen local and remote startups. Apart from owning and executing development of software, I have also catered to several roles that include engineering mentorship, software architecture, disaster recovery, creating educational material and hiring.

🏅 Consulting Highlights

Crio - DevOps Engineer · Feb 2020 - Oct 2020

- Saved over 10,000 USD per month in cloud expenses by optimizing AWS infrastructure.
- Built new infrastructure using Terraform spanning a dozen services and over a hundred concurrent servers.
- Created QKart, a React learning experience that is now sold as part of the product and has been utilized by over a thousand customers till date.

Geektrust - Full-stack Engineer · Oct 2016 - Oct 2017

- Proposed, got buy-in and implemented a microservice to instantly display updates to users' job applications in real-time.
- Evaluated candidate code submissions and assigned scores based on metrics such as performance, readability, testability, etc.

Pickcel - Web Developer · Sep 2015 - Oct 2016

- Drove the frontend and backend development of a real-time healthcare appointment scheduling and management platform.
- Constructed an inventory management frontend for customers to book advertisement slots on public screens throughout India.

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🚀 proficiency

Frontend:
- React
- Gatsby, Next
- Typescript

Backend:
- Node.js
- GraphQL
- Serverless

DevOps / SRE:
- Terraform
- Packer
- Ansible
- AWS, GCP, DO

💡 projects

- **Doppler** - A zero configuration remote monitoring tool.
- **DiscordEncryption** - Configurable end to end encryption for Discord.
- **ISS Flyby Alert** - A React Native application to receive alerts for International Space Station flybys at your location.
- **Cardio** - A Node.js module that measures how long an async function takes to run as a performance metric.
- **Dish** - A remote management Discord bot for easy shell access.
- **Botato** - A personal bot for easy remote management over a network.
- **TeamSpeakBot** - A bot to manage playing audio and music on TeamSpeak servers using commands.

🧪 open source

Contributed to and maintained numerous open source tools and libraries, including popular projects such as Gatsby, Terraform and DNSCrypt.
Refer to my Github pull request history for more details.