

Prakash Upadhyay

Tech Architect / Lead Fullstack Developer - **9 years**

I envision and build usable apps that scale. Primary Stack: **MERN** and **Cloud-native**. An avid Hackathoner who believes in team-centric innovation.

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→ WORK EXPERIENCE

GoTo Financials (Gojek)

Senior Fullstack Developer (Lead)

Bangalore | May 2022 – Aug 2024

- Online Payment: SPA app to handle user registration and payments. Revamped RoR code with multiple payment flows (one-time, recurring, PIN based checkout).
- GoTo PIN: Led and built the Web SDK for User PIN setup and management flows. Reduced **SMS OTP** cost by **\$1.5M** by using PIN for 2FA. Integrated the web app with merchant's Web or Native (WebView) flows for user authentication and payment authorization.
- **Key responsibility:** Lead project scoping, risk assessment & resource estimation(bottom-up), defining and planning sprint deliverables. Developed the CI/CD pipeline for code review / deployment / monitoring on AWS S3/CloudFront, secure URL redirection with CSP Headers and e-2-e metric monitoring with Alerts and User event Analytics (using NewRelic).

PayTM Insider

Senior Software Developer

Mumbai | Apr 2021 – Apr 2022

- Built the real time Video Streaming App for PayTM's virtual meetup and event platform ([insider.in](#)) to host Live events. Used the 100ms platform and in-house services to feature **Live Chat, Polling, QnA and Leaderboard**.
- Built from scratch and **optimized the Video Tile rendering** engine to minimize re-renderings for seamless working on low-bandwidth mobile devices. LCP reduced to less than 0.5 second.
- Handled various roles based on streaming capabilities (i.e. SuperAdmin, Host, Audience).

Inkers.ai

Fullstack Developer

Bangalore | Apr 2019 – Jul 2020

- Built e-2-e admin dashboard for clients in the domains of **Health, Retail, Aerospace Engineering** and Co-Work Spaces, featuring RBAC for role based access and focused on Core Web Vitals for responsive web pages.
- Wrote SQL queries on denormalized schema and materialized the SQL queries for quarterly / yearly granularities for performant OLAP queries. Used client side **caching** thereby **reducing the page load** time by **40%**.
- Customized a Javascript Chart library to plot timed customer movement (directional) data points.

SAP Labs

Software Developer

Bangalore | Jun 2015 – Jun 2018

- As a fellow in SAP Machine Learning team (Singapore), built models for Gas Meter detection / reading, Apparel classification using TensorFlow, trained on public data and deployed on EC2 Docker instance.
- Building Image Annotation Tool for image labeling (using RequireJS).
- CLI tool for ML model management and training pipelines (using GoLang) and corresponding APIs in SpringBoot load tested (using JMeter).

Accenture

Associate Software Engineer

Mumbai | Jul 2014 – May 2015

- Automated test suite using CodedUI for 9-1-1 emergency software, brought test coverage to 90%.
- Developed employee management web app using WCF services.

→ SKILLS

- React.js / Next.js
- Jest / react-testing-library
- Styled-components / tailwind CSS
- Node.js / Express.js / Nest.js
- Javascript / Typescript
- PostgreSQL / Redis / Kafka
- Docker / Kubernetes
- Prometheus / ELK / NewRelic
- CI / CD - GitLab CI
- AWS: EC2, CloudFront, Route 53, S3, Lambda
- Tools: Figma(UI), Git

→ PATENTS & AWARDS

- **USPTO:** 10936288 (Voice enabled User Interface Framework) - Mar 2021
- **ECS ML Hackathon** for Server resource analysis using model ensembling - Oct 2017
- **Winner**(Logistics): SAP Global P&I IoT Challenge - Sep 2016
- **Winner:** SAP sudoCODE 3.0 - Jun 2016
- **Winner:** CodeForCharity SAP - May 2016

→ CERTIFICATIONS

- **Software Architecture:** From Developer to Architect
- **Learning Kubernetes**

→ EDUCATION

Bachelor of Engineering (Computer Science)

Jun 2010 - May 2014

Vivekanand Education Society's Institute of Technology, Mumbai