

Results-driven and technologically-sophisticated professional with solid background in project management and related implementations, especially automation tools development. Well-versed in assessing clients' needs and recommending suitable solutions to achieve desired outcomes. Demonstrated ability to educate team members and colleagues through seminars and training on new developments. Highly capable of coordinating development of AI/ML technologies for enhanced IT operations. Talent for designing and developing enterprise scale distributed systems. Instrumental in resolving technical issues to maintain seamless project progress.

## Technical Proficiencies

<b>Programming Languages:</b>	Java (OOP, Android Studio), Python, SQL, C/C++, Bash
<b>Web Development:</b>	HTML, CSS, JavaScript (Vanilla, Angular, React, Express, Ext), Pug
<b>Frameworks:</b>	Spring, Hibernate, Django, SQL Alchemy, Flask
<b>Databases</b>	SQL server, MySQL, PostgreSQL, Redis, MongoDB, Elastic Search
<b>Tools &amp; Software:</b>	Git, Docker, JIRA, LATEX
<b>Core Competencies:</b>	Project Management, System Engineering, Software Development, Algorithm Development, Database Management, Team Leadership & Mentorship

## Career Experience

FinMechanics India Pvt. Ltd.

7/2020 – Present

Engineering Manager | Automation Lead | Software Engineer

Facilitated trade pricing, risk, compliances, and processing by automating cross-asset treasury platform. Architected new sorting engine, which efficiently sorted end-reports for users as per given set of features. Managed client load by leading discussions over tech stack used and infrastructure needed. Enabled faster navigation from 3.5M+ deals booked on system by developing regex/JS-based number-range inputs. Offered support for several authentication protocols to implement non-anonymous LDAP bind, SSO, and 2FA. Designed and developed logic algorithm to determine suitable payment method from user-defined choices.

- Architected automation pipelines and led a team of four for implementations impacting over 50+ clients all over the globe. Introduced dev-sec-ops in project delivery workflow for smoother, more stable releases.
- Headed implementation and go-live of fixed-income back-office modules on FM-Converge administering and supporting portfolio worth of over INR 75,000 Crore for a largest bank FI debt market in India.
- Enhanced core operations of FM-Converge by over 1000%, which allowed deals processing in less than a second reducing the time from five seconds via vectorised pricing and Asynchronous non-blocking programming.

Kwikpic.in

3/2020 – 10/2021

Chief Technical Officer

Played a key role in creating low cost, no-bias accurate CV models by overseeing development, single-shot face recognition algorithm with 2M+ faces learned. Facilitated adoption of agile methodology from ideation to deploying the same day. Ensured timely delivery of over 75K+ photos to five thousand users using face recognition, which expanded client support by integrating Google Drive, DropBox, and OneDrive APIs into content delivery workflow. Enabled authorisation of APIs at origin instead of filtering the requests in logic layer, eliminating human mistakes in development for increased app security.

- Led automation of application workflow via event-driven architecture and implementation of parallel computing, selective caching, and multi-threading, which reduced overall process running time to 1/10<sup>th</sup>.
- Saved 600 employee hours along with ₹3L per month by expediting automation of recognition engine.
- Designed complete platform from PoC to scalable production-grade system to final commercial release.
- Expanded user reach and created market space by serving 100+ events and partnering with 30+ photographers.

## Career Note

### Institute System Administrator (ISA), IIT Bombay

4/2019 – 6/2020

- Developed Single-Sign-On architecture as well as created iOS client and dev-friendly Django plugin to ensure secured user-initiated password-less LDAP authentication.
- Managed student datacentre hardware infrastructure, while devising AMS - cryptographically secure solution, which digitised decade-old paper-based workflows as emergency response to COVID-19.

### Summer Associate, FinMechanics India Pvt. Ltd.

5/2019 – 7/2019

- Automated cross-asset treasury platform to support trade pricing, risk, compliance, and processing.
- Formulated self-updating views to support real-time data visualisation and integrate UCM on production.
- Led product's core part revamp 'bond master engine', which ensured better abstraction of 105 feature groups.
- Developed APIs in Java Spring, DB abstracted by Hibernate, Hazelcast for in-memory caching, and ExtJS front-end.

### MERN Stack Developer, Skillate Industries Pvt. Ltd.

5/2018 – 7/2018

- Designed job-matching platform for enterprises, removing hassle from recruitment process using artificial intelligence.
- Integrated single page progressive web application via React JS, enabling data gathering from API dynamically.
- Increased application's web-reach by implementing Google Analytics, Google Jobs, and SEO.
- Created landing page from scratch for improved performance.

### SEO Analyst, Toppr Learning

12/2017 – 1/2018

- Created online practice platform for students in preparing for IIT JEE, PMT, and school boards/competitive exams.
- Boosted increase in organic traffic on web page by 50% in 20 days.

## Awards

- **Open-source Contributions;** *Earned Arctic Code Vault Contributor batch for special developments in Caprine, Django-robots, and webgems. Awarded a cash prize on issuehunt for long awaited spell-check implementation relating to applications based on electron-context-menu, including over 4000 dependent repositories and over 75 packages.*
- **Research;** *Defended research on impact of super-resolution on high-quality road detection based on mid-resolution satellite images, achieving accuracy in road detection by 90% on two-lane roads in comparison with state-of-the-art 73%.*
- **College;** *Awarded with Institute Organisational Commendation for exceptional performance as Institute System Administrator. Received with highest praise, Institute mentorship Special mention 2020 for special efforts in Academic Rehabilitation Program.*

## Education & Certification

### B. Tech, Civil Engineering, Minor in Computer Science

Indian Institute of Technology Bombay, 2020

### Certificate of completion, Natural Language Processing in Trading

QuantInsti, 2020

## Seminars & Qualifications

Best practices when coding and it's benefits – FinMechanics

Knowledge transfer about development of new modules – FinMechanics

Getting started on Technical Stuff – 1000+ students, Freshmen Induction Programme – IIT Bombay

Teaching the under-privileged – 5 NGOs and 200+ students – National Service Scheme

## Community Involvement

Co-organised "CURED"- PAN India Social Initiative spreading diabetes awareness in over 50 cities.

Completed over 100 hours of community service in NGOs as an NSS Volunteer.

Built just-in-time inventory system, which improved logistics and reduced overall costs by 50%, while leading team of 25 field officers, efficiently managing on-ground activities for driving social initiatives.