# Vinay Kumar

## Frontend Developer

🎥 <u>Video Resume</u>

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## ABOUT ME

In 4 years, I've developed strong frontend focus, building UX driven, high performance web apps. I'm experienced in solving complex client side workflows using frameworks like React.js and Next.js.

I also have hands on exposure to backend systems through industry grade personal projects.

## WORK EXPERIENCE

### Frontend Developer

**Grappus**                                    Gurugram
Jun' 2022 – Nov' 2025

- Developed **core features** for **Unberry's assessment tool and client dashboards**, supporting candidate, recruiter, and admin user flows.
- Delivered **responsive**, **mobile-first React.js** assessment **interfaces**, unlocking **mobile-only large scale** hiring drives with **2000+ candidates**.
- Implemented **advanced proctoring** mechanisms, **reducing cheating incidents** during assessments across **100%** of assessments and **disqualified ~ 8% to 20%** of the candidates in each hiring drive.
- **Optimised performance heavy tasks** involved in image proctoring using **web workers**, reducing **main thread blocking** on **at least 90%** low end devices.
- **Integrated OpenAI based AI proctoring REST APIs** in the user reports, **reducing** manual review effort by **1+ hours** for each report.
- **Led frontend development** of a feedback module, **collecting 1000s** of **structured feedbacks** thus **reducing customer success team's effort** previously spend in consolidating feedbacks manually.
- **Developed the frontend** for an **LLM driven** automated quiz generation workflow, **reducing operation team's workload** by **~36+ hours** per assessment.
- Enhanced global reach through **internationalization** with **React i18n** and customised rich **text editors** for content creation.

## PROJECTS

### Git Guardian
<u>Github Link</u>      <u>Demo Link</u>

- Built a **pre commit hook** using **shell script** to intercept commits and invoke a **Node.js** analysis pipeline using a local **LLM** and provide risk assessments, and suggestions .

### Thumbnail Generation
<u>Github Link</u>

- Built an **asynchronous task processing** system using **Node.js**, TypeScript, **BullMQ**, and **Redis**.
- Implementing a **multi stage queue** workflow with retries, **exponential backoff** , and a **dead letter queue** for failure isolation.
- Offloaded CPU intensive image resizing to **worker threads** to prevent main thread blocking, and exposed realtime task status updates via **WebSockets** and **server sent events**, enabling reliable background processing in **production like environments**.
- **Logflare** to capture **structured logs** and **API analytics** to monitor **request volume**, and **usage patterns**.

### URL Shortener
<u>Github Link</u>

- URL Shortener backend built with **Node.js**, **Express**, and **TypeScript**, using **SQLite** with **Sequelize ORM** for persistence and environment based configuration.
- Exposes **REST APIs** with automated **Jest** and **Supertest integration tests** and basic **load testing** for up to 1000 concurrent users.

- Implemented rich **data visualization** features for the client dashboard using **Recharts** and **ChartJS**.

### Software Engineer
**Persistent Systems**                                      Pune
Jul' 2021 – May 2022

- Scored more than 70% in Phase 1 tests conducted during the training program.
- Completed Phase 2 project involving React.js, demonstrating strong learning ability and technical competence.

### Product Engineer Intern
**Finlok**                                                  Pune
Jan' 2021 – Jun' 2021

- Developed POCs for Android app, validating key features that informed prototype development.
- Conducted user research and authored user stories, guiding prototype design aligned with user needs.

# EDUCATION _____

### Bachelor of Technology                    2017 – 2021
**Computer Science & Engineering**

Symbiosis Institute of Technology            Pune

# CERTIFICATES _____

**Generative AI – Tools & Applications**
Credential Link                              Jaro Education

**Fullstack Open**
Credential Link                        University of Helsinki

# HARD SKILLS _____

### Frontend
- Next.js, React.js, Redux Toolkit, RTK Query
- Tailwind CSS, SASS, Ant Design, Mantine UI
- GSAP, Framer Motion

### Backend
- Node.js, Express.js
- PostgresSQL, Redis

### Languages
- Typescript, Javascript (ES6+), SQL, CSS3, HTML5

### Testing
- Jest, Supertest, JMeter

### Tooling
- Postman, Webpack, Docker, Git

### CI/CD
- AWS Amplify, AWS Router 53, GoDaddy, AWS S3

# SOFT SKILLS _____

**Agile Mindset**
I have experience working in iterative, sprint based workflows

**Cross Functional Collaboration**
I work closely with backend, designers and product owners

**Ownership & Accountability**
I lead frontend systems end to end

**System Level Thinking**
I understand workflows beyond just UI components