

# Vinayak Thukral

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## Skills

**Languages & Frameworks:** TypeScript, JavaScript, Node.js, React, Next.js, Express.js, SQL, Tailwind CSS, React Native

**Databases & APIs:** PostgreSQL, MongoDB, Firebase, Prisma ORM, GraphQL, REST APIs, JWT

**DevOps & Tools:** Docker, AWS (Lambda, IoT Core, Amplify), Turborepo, Redis, Postman, GitHub

**Frontend & State Management:** Redux, PWA (next-pwa, Bubblewrap)

## Experience

**Software Developer**, Virtueaze – Ahmedabad, Gujarat Oct 2024 – Present

- Delivered enterprise systems across SaaS, FinTech, Healthcare, and IoT, modernizing platforms from legacy stacks to cloud-native, serverless solutions.
- Built scalable apps using React, Node.js, GraphQL, Docker, AWS, and microservices.
- Modernized legacy systems via CI/CD, containerization, and microservice migration.
- Built a full-scale CMS platform enabling agencies to manage client websites, digital assets, and team roles.
- Designed pixel-perfect UI from Figma prototypes, implementing dynamic modules for asset uploads, templates, and client feedback.
- Architected the backend as microservices using Node.js and Express, handling media management, auth, and site publishing.
- Deployed services via Docker containers on DigitalOcean, with automated backups and custom NGINX configs.

**Full Stack Developer**, IIT Ropar – Bara Phool, Punjab Feb 2024 – Sept 2024

- Engineered biomass supply chain API using TypeScript, Node.js, and MongoDB; boosted data handling speed by 40%.
- Improved frontend performance with Next.js and Redux across all user views.
- Used Docker to containerize apps and deployed with AWS Amplify; performance improved by 35%, costs cut by 20%.
- Connected AWS IoT Core to live sensor data; built a PWA using next-pwa and Bubblewrap.
- Integrated secure login using Firebase Authentication.

## Projects

### FarmFlow

- Integrated AWS IoT Core and Firebase Functions for real-time edge processing
- Delivered scalable microservice architecture with full-stack React/Node deployment

### Mahajan Accurate Application

- Developed a React Native mobile application for managing and selling cycle parts in bulk to distributors
- Designed a cart and bulk-order system supporting wholesale pricing tiers and quantity-based discounts.
- Created an intuitive product catalog with search, filtering, and category-based browsing for quick part discovery.
- Added real-time inventory management, allowing sellers to update stock, pricing, and availability instantly.

## Education

**Amritsar Group Of Colleges, Punjab, India** – Btech CSE June 2025

**Shri Ram Ashram Public School** – 10<sup>th</sup> Passed with 92% Feb 2019

**Shri Ram Ashram Public School** – 12<sup>th</sup> Passed with 87% Feb 2021

## LICENSES & CERTIFICATION

[Ultimate AWS Certified Cloud Practitioner CLF-C02](#)

[Node.js, Express, MongoDB & More: The Complete Bootcamp 2024](#)