

Akash Agrawal

Fullstack Developer

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Professional Summary

Experienced **Fullstack Developer** with a strong background in building **scalable web applications** using **React, Node.js**, and **JavaScript**. Proven ability in developing **APIs**, designing **relational databases**, and delivering end-to-end features using modern **frontend frameworks**. Skilled in creating **responsive UIs** and integrating **RESTful web services**, with working knowledge of **SQL** and **HTML5**. Experienced in **Agile teams**, contributing to reliable, maintainable, and user-focused products.

Technical Skills

Languages & Frameworks: Java, JavaScript, Node.js, Express.js, React.js, HTML, CSS, Data Structures and Algorithms

Databases & Technologies: MongoDB, SQL, DBMS, MERN Stack, Redux Toolkit, Git, GitHub

Microservices & Payments: RabbitMQ, AMQP, Stripe API, Payment Gateway Setup

DevOps & CI/CD: Jenkins, Docker, Render, Jenkins Pipelines

Agile tools & practices: Sprint planning, Scrum, JIRA, Kanban

Experience

Bodex • Software Developer

October 2024 – Present

- Built interactive **GeoJSON maps** with boundary overlays and table integration; added **multi-field filtering** (zip, city, etc.), improving data navigation by **40%**.
- Improved mobile retention by **20%** and reduced load times by **40%**, increasing **Lighthouse scores from 70 → 95+**.
- Engineered an **event-driven Node.js service** to auto-sync external data sources for real-time updates.
- Implemented **secure payment flows** using **Express.js** and resolved backend issues including **data inconsistency**, **broken API responses**, and **latency bottlenecks**, boosting system reliability by **30%**.
- **Tech Stack:** Node.js, Express.js, React.js, Redux Toolkit, TailwindCSS, GeoJSON, Jest, Cypress, SEO, Lighthouse

ClickIt Tech Solutions - Software Engineer 1

November 2023 - October 2024

- Designed and implemented **employee onboarding** and **attendance tracking** modules in **ClickHR**, integrating with the **payroll service** using **REST APIs** and **JWT authentication**.
- Integrated **email and notification services** to trigger alerts for **HR actions** such as approval and absence notification.
- Collaborated in **sprint planning** and worked with **QA teams** to resolve reported issues in **ERP module features**.
- **Tech Stack:** Node.js, Express.js, React.js, SQL, JIRA

Projects

FlashCache – Created My Own Database for Caching | [GitHub](#)

- **Technologies Used:** Node.js, Worker Threads, Child Process, TCP, RDB Persistence, Pub/Sub
- Built **FlashCache**, an in-memory key-value store inspired by Redis with **Set/Get/Delete**, **TTL**, **FlushAll**, and **LRU**.
- Implemented **Pub/Sub messaging**, **master-slave replication**, and **clustering with sharding via consistent hashing**.
- Used **Worker Threads** for async TTL expiry and **Child Processes** for non-blocking RDB-style persistence to JSON.
- Simulates production-grade caching, demonstrating deep understanding of **concurrency**, **replication** and **scalability**.

VideoTweet | [Live Project Link](#) [GitHub](#)

- **Technologies Used:** Node.js, Express.js, MongoDB, Stripe API, RabbitMQ, React.js, Docker, Jenkins, JWT
- Built **VideoTweet**, a video-sharing platform with features like **tweeting**, **comments**, **likes**, **subscriptions** and **uploads**.
- Integrated **Stripe** for creator to receive **payment** and designed **payment & notification microservices** using **RabbitMQ**
- Implemented real-time **notifications** for user actions like **likes**, **comments**, and **payments**.
- Containerized with **Docker** and deployed via **Jenkins CI/CD** for automation.

Achievements

- Started my own weekly Tech news letter **"The Engineering Playbook"** with 1800+ subscribers in LinkedIn.
- Solved more than **600+ DSA questions** with a **200+ days streak** on **Code Studio** platform.
- Earned **2 Masters**, **17 Specialists**, and **21 Achievers** badges on **Code Studio** platform.
- Awarded **Gold Medals** from **IITs** in **NPTEL** exams and received a **tuition fee waiver scholarship** from college.

Education

Full Stack Web Development, Coding Ninjas

May 2023 - Present

Bachelor of Engineering, Shree Shankaracharya Group of Institutions

GPA: 9.15/10