


SHUBHAM SAGAR

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EXPERIENCE

FinacPlus  February 2022 - Present
Software Engineer — Node.js, Java, SpringBoot, React.js, MongoDB, PostgreSQL *Bangalore*

- Migrated cloud services and SDKs from **Amazon Web Services (AWS)** to **Google Cloud Platform (GCP)**, reducing downtime by **30%**, increasing system performance by **25%**, and lowering operational costs by **20%**.
- Led multitenancy integration across distributed microservices using **MongoDB**, **Node.js**, and **AWS**, accelerating development cycles by **40%** and enhancing system scalability.
- Developed an audit system with **Node.js** and **MongoDB**, achieving **99%** data accuracy, strengthening user activity monitoring by **30%**, and reducing data inconsistencies by **20%**.
- Developed a full-stack application using **React.js**, **Node.js**, and **AWS**, improving CRUD efficiency by **30%** and implementing a PDF viewer for document handling. Optimized caching with **Redis** to enhance data access speed.
- Built an automated document transfer system integrating **AWS/Box** with **AWS SNS**, increasing retrieval speed by **30%** and ensuring **98%** accuracy. Improved data storage reliability with **Spring Boot** and **PostgreSQL**.

FinacPlus  August 2021 - January 2022
Software Developer Intern — React.js, JavaScript, CSS, Micro-frontend *Bangalore*

- Contributed to building a loan-acquisition platform **Fintech Product** and involved in both front-end as well as backend roles with tech stack of **TypeScript**, **React**, **Node.js** and **PostgreSQL**, leading to an increase in user engagement by 30%.
- Created reusable React components thus saving team’s **development time by 20%**.
- Engineered React.js notification UI adapted with **backend APIs**, achieving a **20% boost in user engagement** and heightened system interactivity.
- Resolved high-priority defects in both front-end and back-end, **enhancing release efficiency by 25%**.

PROJECTS

SecureVault | Node.js, MongoDB, Crypto

- Designed and developed a **modular encryption service** to securely handle SSN and EIN data, ensuring **compliance with data protection standards**.
- Implemented **AES-256 encryption** and **secure key management** to safeguard sensitive records at rest and during transmission.
- Utilized **MongoDB** for efficient storage and retrieval of encrypted identifiers with **consistent performance**.
- Built **RESTful APIs** using Node.js for operations such as **encryption, decryption, and identifier verification**.
- Integrated **JWT-based token authentication** for **secure access control** to all endpoints.

AuditTrail System | Node.js, MongoDB, Pub/Sub, Microservices

- Engineered an **event-driven audit logging system** using Node.js and MongoDB to capture **critical actions** across distributed services.
- Developed a **microservice** to publish audit events via **Pub/Sub**, ensuring **asynchronous and decoupled communication**.
- Built a dedicated **audit consumer service** that subscribes to Pub/Sub topics and **persists structured logs** into MongoDB for traceability.
- Ensured **message durability** and **exactly-once processing** using message acknowledgments and retry mechanisms.
- Enabled **real-time monitoring** and **post-incident analysis** with time-stamped, queryable audit entries.

Multi-Tenant System | Node.js, MongoDB, Dynamic Config, Middleware

- Designed a **scalable multi-tenant system** using Node.js and MongoDB, supporting **isolated data and configurations** per client.
- Implemented **dynamic configuration injection** to route API behavior based on **tenant context via middleware**.
- Managed tenant-specific metadata such as database URIs, limits, and feature flags in a centralized configuration service.
- Developed middleware to enforce **tenant-based authentication, access control, and request validation**.
- Enabled **seamless onboarding for new tenants** without impacting existing users or services.

CineExplore  | React, Context API, Material UI, Hooks

- Created React.js platform with hooks for movie search and API-driven details, achieving a 25% **reduction in search response time**, optimizing user experience.
- Integrated movie API endpoints, realizing a 30% boost in **real-time updates** for trending movies and enhancing user engagement by 20%.

EDUCATION

Guru Nanak Dev University July 2017 - July 2021
Bachelor of Technology in Computer Science - CGPA 8.50 *Amritsar, Punjab*

TECHNICAL SKILLS

Languages: C/C++, **Java**, Python, **JavaScript**, **TypeScript**

JavaScript Libraries: **React.js**, **React Query**, Router, Context API, Redux

Technologies/Frameworks: React.js, Node.js, SpringBoot, Mocha, Jenkins, GitHub

Tools: Git/GitHub, Visual Studio Code, **Jenkins**, Jira, npm/yarn, **Docker**,Microsoft Teams, **Amazon Web Services (AWS)**, **Google Cloud Platform**, Postman, **SQL**, Chrome DevTools, Confluence, Swagger,DBeaver,IntelliJ IDEA ,**MongoDB Compass**

Achievements

- Cleared Codevita Pre-Qualifier Round
- Solved 350+ DSA question in various platform