

SHUBHAM PANDEY

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EXPERIENCE

Software Developer

Jan 2024 – Present

Capline Services

Noida

- Developed RESTful APIs using **Node.js** and **Express.js**, achieving **30% faster** response times through optimized backend logic and **Rate Limiting**.
- Integrated real-time features with **Socket.io** and **CRON Jobs**, improving user engagement by **27%**.
- Designed **MySQL** schema with indexing and **Autoscaling** to manage healthcare data efficiently.
- Optimized database queries using **Redis** caching with **Aggregation Pipelines**, reducing server load by **25%**.
- Automated error logging and alerting using **AWS CloudWatch**, enhancing debugging efficiency and reducing downtime.

Systems Engineer

Jul 2021 – Dec 2023

Tata Consultancy Services

Noida

- Engineered OAuth-based authentication with **JWT**, handling **10,000 daily requests** with **99.8%** uptime.
- Developed inventory tracking using **MongoDB** and **Aggregation Pipelines**, reducing discrepancies by **23%**.
- Implemented **Redis** caching and **Load Balancing**, enhancing API response times by **57%**.
- Led migration to **Node.js** microservices, reducing server costs by **19%** and improving scalability.
- Configured **Autoscaling** for databases and applications, ensuring high availability under varying loads.

PROJECTS

RCM Dashboard | *Node.js, React.js, Express.js, MySQL, AWS*

[Link](#)

- Built REST APIs with **Rate Limiting** and optimized SQL queries using **Aggregation Pipelines**.
- Implemented role-based access with **JWT** to support multiple user tiers (Billing, QA, Management).
- Developed stored procedures in **MySQL** for complex reports on KPIs like AR days and claim status.

CaplineXplore GPT | *Node.js, React.js, Express.js, MongoDB, OpenAI, React, Redis*

[Link](#)

- Built an AI tool to extract structured data from PDFs, including EOBs, billing, and patient details, using **OpenAI GPT APIs**.
- Developed a document upload module to parse and store healthcare data in **MongoDB** using **Aggregation Pipelines**.
- Implemented prompt-based querying to retrieve patient and billing details from PDFs with high accuracy.

Insurance Lookup Dashboard | *Node.js, React.js, MongoDB, Microservices, RabbitMQ, Express.js*

[Link](#)

- Developed automated insurance verification tool using microservices and **RabbitMQ** for processing.
- Enabled bulk processing with multi-threading and **Load Balancing**, cutting verification time by **80%**.
- Created real-time analytics dashboards using **MongoDB** aggregation for verification tracking.

TECHNICAL SKILLS

Languages/Frameworks: JavaScript, Node.js, Express.js, React.js, TypeScript, Redux, REST, Socket.io

Databases/Tools: MySQL, MongoDB, Redis, Aggregation Pipelines, Git

DevOps/Cloud: AWS (S3, EC2, EBS, RDS), Docker, Microservices, RabbitMQ, CI/CD, Autoscaling, Load Balancing

EDUCATION

Harcourt Butler Technical University

Master of Computer Applications

Kanpur, UP

CGPA: 8.5, 2021

ACHIEVEMENTS

- Certificate of Achievement (Silver) - Capline Services [\[Link\]](#)
- Certificate of Achievement (Bronze) - Capline Services [\[Link\]](#)
- Learning Achievement Award - Tata Consultancy Services [\[Link\]](#)