

AAKARSHIT SHARMA

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SUMMARY

Backend Developer with 1.5 years of experience delivering scalable RESTful APIs, real-time applications using WebSocket & Redis, and microservice architectures. Proficient in Node.js, Express.js, MySQL/MongoDB, and Docker, with practical AWS experience for scalable deployments. Skilled in designing secure, high-performance backend systems for large-scale applications.

SKILLS

Backend & API Development: Node.js, Express.js, REST APIs, WebSocket, JWT, OAuth, Microservices, Docker

Databases & Cloud: MySQL, MongoDB, Redis, AWS (IAM, S3, EC2)

Programming Languages & Tools: C++, JavaScript, Python, Postman, Jira, Git

EXPERIENCE

Web Developer | TECHASOFT

(Dec 2023 - Feb 2025, Chandigarh)

- Developed scalable **RESTful APIs** using **Node.js**, **Express.js**, and **Sequelize** with **authentication** (JWT, OAuth), file handling using **S3**, asynchronous programming and **WebSocket** for **real-time** communication
- Designed and optimized **MySQL & MongoDB** databases with indexing, **Redis caching**, pagination, and **query optimization**, improving data retrieval speeds by up to **30%**
- Built a **Microservice-based real-time chat system** using **Redis Pub/Sub** and **Socket.IO**, deployed across multiple **distributed servers (3-4 nodes)** to ensure fault tolerance, horizontal scalability, and high-speed messaging
- Enhanced **API security** by implementing authentication, **CSRF/CORS** handling, **role-based access control**, **logging** using **Winson** for anomaly detection, and **rate limiting** to prevent abuse
- Containerized apps with **Docker**, eliminating deployment errors by ensuring version consistency across environments
- Leveraged **AWS** services including **S3** (file storage), **EC2** (deployment), and **IAM** (access management) to improve application scalability, reliability, and security

Web Developer Intern | METTIER IT

(Jun 2022 - Jul 2022 | New Delhi)

- Built responsive, high-performance UI components using HTML, CSS, JavaScript, and **React.js**, translating **Figma** designs into functional interfaces.

PROJECTS

SURF LOCAL – Real Estate Marketplace

- Developed scalable **RESTful APIs** with JWT authentication and **OTP verification**, enabling agent-buyer/seller **networking through connections**. Designed APIs for a **Tinder-like property surf module** (mobile) and a property hub (web) with **30+** quick filters and **15+** advanced search options, significantly enhancing product discovery
- Engineered a **Python-based ETL pipeline** to process over **2GB+** of property data daily from third-party APIs using batch processing, filtering, and multithreading, improving ingestion speed by **70%**
- Integrated **Google Geolocation APIs** for smart location-based suggestions (e.g., nearby schools, amenities)
- Automated backend testing by contributing to a custom API testing framework with daily test execution and email-based reporting, ensuring API reliability and reducing manual debugging efforts by **~90%**

DENT SCAN – Dental Application

- Created secure REST APIs using Node.js, Express.js, JWT for patient-doctor appointment scheduling and medical history management using **encrypted document uploads** in private S3 buckets.

EDUCATION

DAV University – B. Tech, Computer Science & Engineering

(Aug 2019 - Jun 2023 | Jalandhar, PB)

- Competed in Hackathons, Cyber Security Workshops, Presented seminars on Quantum Computing

Jawahar Navodaya Vidyalaya – 12th (PCM) & 10th

(Apr 2015 – Mar 2018 | Kangra, HP)

- Rashtrapati Award – Scouts and Guides | Inspire Award – Dept. of Science & Technology, Govt. of India
- Volunteered: 4 years in Scouts & Guides, 2 years in NSS

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

IoT & Automation – IIT Mandi

(Oct 2023 - Nov 2023 | Mandi, H.P)

- IoT automation, including sensor interfacing and control systems. Practical experience in advanced control systems, communication protocols, and IoT device integration, microcontroller programming using python and C++

Certifications (Udemy): React.js: The Complete Guide | **Node.js**: The Complete Guide