CHETHAS ACHARYA

Software Engineer | Backend & Platform Engineering | Node.js | REST APIs

Bengaluru, India | +91 86600 25045 | chethasacharya@gmail.com | github.com/chethasacharya-web

PROFESSIONAL SUMMARY

Software engineer with 8 months of experience in backend development, complemented by software engineering internship experience and hands-on work in RESTful API design, database integration, and full-stack application development. Skilled in JavaScript, Node.js, Express.js, and MySQL, with practical experience implementing authentication, authorization, request validation, rate limiting, and structured error handling for secure and reliable services. Experienced in API integration, application testing, debugging, and monitoring to identify issues and improve reliability. Strong foundation in DSA, OOP, software design, and databases; focused on secure, scalable, and maintainable backend systems.

TECHNICAL SKILLS

Programming Languages: JavaScript, Python, C++, SQL
Backend Development: Node.js, Express.js, REST APIs, API Integration, Backend Services
Databases: MySQL, Relational Databases, SQL Queries, Database Operations
Software Engineering: Data Structures & Algorithms, OOP, Problem-Solving, Debugging, Error Handling, Request Validation
API Security: JWT Authentication, Authorization
Testing & Tools: API Testing, Git, GitHub, Postman
Frontend Technologies: React.js, HTML5, CSS3
Machine Learning: Python, TensorFlow, Keras, Convolutional Neural Networks, Transfer Learning
CS Fundamentals: Database Management Systems, Operating Systems, CI/CD (GitHub Actions)
Distributed Systems: REST-Based Service Communication, Request Timeouts
Monitoring & Reliability: Structured Logging, Response-Time Monitoring, Error Tracking
Cloud Computing: AWS Fundamentals, Cloud Application Deployment

PROFESSIONAL EXPERIENCE

Software Engineering Co-op | QTY Solutions

Bengaluru, India | May 2026 – Present

- Developed and integrated REST APIs using Node.js and Express.js to support application functionality and backend communication.
- Implemented JWT-based authentication and authorization to manage access to protected application resources.
- Added request validation and structured error handling to improve API consistency and support troubleshooting.
- Integrated backend services with a MySQL database to support data storage, retrieval, and updates.
- Tested and debugged API endpoints to identify functional issues and verify expected application behavior.
- Supported frontend-backend integration by validating API requests, responses, and data flow between application components.

Software Engineering Intern | QTY Solutions

Bengaluru, India | May 2025 – August 2025

- Contributed to APIForge, a web-based API management platform supporting backend functionality and API-driven application workflows.
- Worked with JavaScript and backend technologies to implement application features and integrate frontend components with backend services.
- Assisted in validating application functionality and troubleshooting issues across connected components.

PROJECTS

APIForge — API Management Platform

Technologies: React.js, JavaScript, Node.js, Express.js, MySQL, REST APIs, JWT

- Developed a full-stack API management platform using React.js for the frontend and Node.js with Express.js for backend services.
- Built REST API endpoints to support application functionality and communication between frontend components and backend services.
- Integrated MySQL for structured data storage and database operations; implemented JWT-based authentication, request validation, and error handling.
- Tested and debugged API functionality to identify issues and improve the reliability of application workflows.

Pneumonia Detection Using Chest X-Ray Images

Technologies: Python, TensorFlow, Keras, CNN, Xception Transfer Learning

- Developed a machine learning project to classify chest X-ray images into normal and pneumonia categories using Python, TensorFlow, and Keras.
- Applied transfer learning with the Xception architecture to support image feature extraction and classification.
- Worked with training, validation, and test datasets; monitored training metrics including accuracy and loss to assess model performance.

EDUCATION

NMAM Institute of Technology — Bachelor of Technology in Computer Science and Engineering

CGPA: 8.50 / 10.00 | PPEC, Bengaluru