

Ashutosh Sahu

Software Engineering Intern - Bachelor of Technology, Graduating May 2027

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Professional Summary

Software Engineering Intern candidate with over two years of programming experience in object-oriented languages, currently pursuing a Bachelor of Technology in Computer Engineering at IIIT Bhubaneswar (CGPA 8.66/10). Strong computer science fundamentals across data structures and algorithms, object-oriented design, complexity analysis, operating systems, databases and problem solving, working in C++, C and Python. Previous software engineering internship on a live client project, working with stakeholders to determine user requirements and turn them into shipped features. Designs, develops and tests production quality software: a distributed microservices backend of 5 services behind an API Gateway, and a scalable multi-vendor platform on secure REST APIs. Applies engineering principles, industry best practices, debugging, time management and a growth mindset in cooperative team environments. Internship availability: full-time, with at least one academic term remaining afterwards.

Education

International Institute of Information Technology (IIIT), Bhubaneswar

Aug 2023 - May 2027

Bachelor of Technology in Computer Engineering

CGPA: 8.66/10

Relevant coursework: Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems, Computer Networks, Discrete Mathematics.

Certifications

Software Development Engineer Internship Certificate: Fastliq Solutions Pvt. Ltd., Jul 2026.

1st National Workshop on Sensor to Cloud and IoT Applications (SCIOT-2026): IIIT Bhubaneswar, Mar 2026.

Technical Skills

Object-Oriented Programming Languages: C++, C, Python, JavaScript, SQL, HTML5, CSS3

Computer Science Fundamentals: Data Structures and Algorithms, Algorithm Design, Complexity Analysis, Object-Oriented Design, Object-Oriented Programming, Problem Solving, Operating Systems, Database Management Systems

Software Engineering and Development: Node.js, Express.js, REST APIs, Microservices, Multi-Tiered Architecture, API Gateway, JWT Authentication, Role-Based Access Control, Security, Socket.IO, Scalability

Databases and Data: MongoDB, Relational Databases, SQL, Redis, Firebase

Frontend and AI: React JS, Tailwind CSS, LangGraph, LangChain, Google Gemini API

Software Quality and Reliability: Software Testing, Debugging, Code Quality, Requirements Gathering, Best Practices, Performance, CI/CD, Git, GitHub, Automation, Technical Communication, Analytical Problem Solving, Time Management

Work Experience

Fastliq Solutions Pvt. Ltd.

May 2026 - Jul 2026

Software Development Engineer Intern - Backend

New Delhi, India

- Owned the backend API layer end to end on a live client project, building REST services in Node.js, Express.js and MongoDB over a 2-month internship.
- Collaborated with web and mobile stakeholders to determine user requirements, then designed, developed and tested the 12+ REST endpoints delivering them.
- Drove one shared API contract serving 2 client-facing products from a single backend, designing the MongoDB data models behind it.
- Debugged endpoint and integration issues raised by 2 cross-functional client teams, applying best practices to schemas, authentication and error handling.

Projects

AI-LUMA - Multi-Agent AI Assistant Platform

2026

Node.js, Express, React, LangGraph, LangChain, Redis, API Gateway, Firebase

[ai-luma.vercel.app](#)

- Architected a distributed, multi-tiered microservices backend of 5 services (Gateway, Auth, Agent, Chat, Billing) with an API Gateway and Redis rate limiting.
- Engineered a LangGraph and LangChain orchestration engine with a supervisor agent coordinating 4 specialist agents.
- Optimized AI workflow cost, latency and performance by integrating 4 model providers: Google Gemini, DeepSeek, Groq and OpenRouter.
- Tested service endpoints and enforced code quality across the 5 service boundaries.

GRABIT - AI-Powered Multi-Vendor Food Delivery Platform

2026

MongoDB, Express.js, React.js, Node.js (MERN), Redux Toolkit, Socket.IO, JWT

[grab-it-lovat.vercel.app](#)

- Built a scalable multi-vendor food delivery platform supporting 5 user roles, with secure REST APIs and JWT-based role-based access control.
- Implemented real-time delivery tracking and live customer support using React-Leaflet and Socket.IO.
- Designed an admin dashboard on MongoDB aggregation pipelines, and automated customer query resolution with a Google Gemini support chatbot.

Achievements

- Achieved an SGPA of 9.0 or above in three semesters, on a CGPA of 8.66/10.
- Won runner-up at the 1st National Workshop SCIOT-2026, IIIT Bhubaneswar, Mar 2026.