Arnav Kumar Gupta

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Summary

Third-year BTech Computer Science student at Christ University, Bangalore, with a strong foundation in data structures and object-oriented programming. Eager to apply academic knowledge to practical projects, continuously improve technical skills, and contribute in collaborative environments. Passionate about technology, innovation, and growth.

Skills

Programming Languages: JavaScript, TypeScript, C++, Java, Python

Web & Backend: Node.js, Express.js, JWT, REST APIs

Databases: PostgreSQL, Prisma ORM, MySQL, MongoDB

Testing & CI/CD: Jest, Supertest, GitHub Actions, Docker

Tools & IDEs: Postman, Git, Linux CLI, VS Code

Work Experience

Software Engineering Intern - Gullak Money   April 2025 – May 2025

- Contributed effectively to the codebase by assisting in the implementation of new features.
- Reduced critical production defects by 20% through rigorous debugging and implementing dedicated unit tests
- Participated in daily stand-ups and contributed valuable insights in design discussions.
- Owned the implementation and deployment of a small utility service, delivering it ahead of schedule.

Education

CHRIST (Deemed to be University), B. Tech in Computer Science   CGPA: 3.87/4   June 2023 – May 2027

Key Coursework: Data Structures, Operating Systems, OOP, Computer Networks,Computer Architecture, DBMS, Cloud Computing, Internet and Web Programming, AIML, Design and Analysis of Algorithm

Projects

Expense-Ease — Personal Finance & Bill Splitting API
Technologies: Node.js, Express, TypeScript, PostgreSQL, Prisma, Jest, Docker, GitHub Actions

- Designed secure personal finance tracking and bill-splitting APIs with **JWT authentication**, category filters, and friend-only validation for collaborative expenses.
- Implemented robust friend workflows - discover, invite, accept / reject and block - with **bidirectional pagination** and unique constraints on user relations.
- Developed comprehensive **unit and integration tests** using **Jest**, **Supertest**, and mocked Prisma Client with **Dockerized Postgres DB** for test isolation and reliability.
- Automated **Continuous Integration with GitHub Actions** to trigger test suites and linting on every push/pull request, ensuring production-grade code quality.

MicroTasker — Event-Driven Task Management Backend
Technologies: Node.js, Express, MongoDB, RabbitMQ, Docker, JWT

- Engineered event-driven user registration and login flows using RabbitMQ to publish user.created events, successfully decoupling account provisioning from the core service.
- Developed a dedicated notification worker to consume user.* and task.* topics, implementing message acknowledgment and persistence for guaranteed delivery of notification records
- Hardened public APIs with rate limiting and CORS while orchestrating the entire multi-service environment (MongoDB, RabbitMQ) using Docker Compose for reproducible local setup.