

Paawanjot Kaur

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EDUCATION

Scaler School of Technology

UG Computer Science

Bangalore, KN

Aug. 2023 – May 2027

Birla Institute of Technology

Bachelors of Science in Computer Science

Pilani, RJ

Aug. 2023 – May 2026

EXPERIENCE

Intern, Backend Software Development

Sept 2024 – Jan 2025

FREECHARGE PAYMENT TECHNOLOGIES

Gurugram, India

- **Developed and maintained** a Loan Origination System (**LOS**) and Org's Human Resource Management System (**HRMS**) using TypeScript, Node.js, and Express.js, **improving backend efficiency and functionality**.
- Designed and implemented APIs, ensuring smooth integration with the frontend team, **enhancing product functionality and user experience**.
- Conducted **thorough unit testing** and maintained technical documentation to ensure **high code quality** and system.

PROJECTS

FleetGoGo | [GitHub](#) | *Node.js, TypeScript, Express.js, Apollo GraphQL, RabbitMQ, MongoDB, Redis, Docker*

- Designed a microservices-based backend for efficient fleet operations, managing **drivers, vehicles, and trips** seamlessly.
- Implemented **event-driven communication** using RabbitMQ (CloudAMQP) for real-time updates across services.
- Developed a **GraphQL API Gateway** with Apollo Server for unified access to microservices.
- Optimized performance with **Redis caching** and containerized deployment via Docker.
- **Microservices:**
 - * **Driver Service:** Handles driver registration, authentication, and availability tracking.
 - * **Vehicle Service:** Manages vehicle registration, status updates, and maintenance.
 - * **Trip Service:** Assigns trips, verifies availability, and tracks trip progress.

Hungry Stomachs | [live link](#) | [github](#) | *Nodejs, React, ExpressJS, MongoDB, TailwindCSS, Razorpay, CRON, Typescript*

- Built a platform for a homemade chocolate business with user **authentication (JWT)**, **cart management (Redux)**, and **Razorpay payment integration**.
- Includes an admin panel for **managing orders, viewing order history, and performing CRUD operations on products**.
- Integrated Nodemailer for **email notifications** to notify both admin and buyers of new orders.
- Automated deletion of unpaid, expired **orders using CRON jobs**, and organized chocolates into categories for easy browsing and purchasing.

CanvasExpress | [github](#) | [live link](#) | *Node.js, Express.js, Typescript, MongoDB, HTML5 Canvas API, Zod, Docker*

- Developed a RESTful API using node-canvas to **generate and export server-side canvas drawings** as HTML files with embedded SVG content.
- Built endpoints for adding elements (shapes and text) with **Zod-based validation** and integrated MongoDB for seamless data management.
- Leveraged **node-canvas** to dynamically render and manage **drawings directly on the server**.
- Logged export actions in MongoDB and implemented **Docker for containerized deployment** and simplified setup.

Aerofit Case Study | *python, pandas, numpy, matplotlib*

- GitHub Gist link: [Aerofit Data Analysis](#)
- Data Science Project - Case Study And Exploratory analysis on Aerofit's Data
- Analysis of the data by Aerofit treadmill company in which information about customers who purchased and use treadmills is provided.
- Inferred facts about types of customers and suggested business actions by visualizing data of customers' age, gender, marital status, years of education, income, treadmill usage and miles they run per week, and fitness.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, Typescript

Frameworks: React, Node.js, Express.js, SpringBoot, GraphQL

Developer Tools: Docker, Linux, Git, VS Code

Libraries: pandas, NumPy, React-Redux, Nodemailer, Joi, Zod, RabbitMQ

Databases: MongoDB, MySQL, PostgreSQL, Redis

ORM: Mongoose, Sequelize, Prisma