Paawanjot Kaur

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EDUCATION

Scaler School of Technology	Bangalore, KN
UG Computer Science	*Aug. 2023 – May 2027*
Birla Institute of Technology	Pilani, RJ
Bachelors of Science in Computer Science	*Aug. 2023 – May 2026*

EXPERIENCE

Intern, Backend Software Development — Sept 2024 – Present
FREECHARGE PAYMENT TECHNOLOGIES — *Gurugram, India*

- **Developed and maintained** a Loan Origination System (LOS) 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

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.

Movie Ticket Booking Server | *Java, Spring Boot, Maven, MySQL*

- GitHub: https://github.com/paawanjotk/MovieTicketBookingSystem
- This project is a Movie Booking System developed using Spring Boot. It provides a comprehensive solution for managing movie bookings, cinema halls, customer profiles, movies, and shows.

CanvasExpress | github | *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, SQL, JavaScript, Typescript
Frameworks: React, Node.js, Express.js, SpringBoot
Developer Tools: Docker, Linux, Git, VS Code, IntelliJ
Libraries: pandas, NumPy, Matplotlib, Redux, Nodemailer, Zod, Joi
Databases: MongoDB, MySQL, Postgres
ORM: Mongoose, Sequelize