Parva Nachan

(+91) 7828709031 — parvanachan2005@gmail.com — LinkedIn — GitHub
Indore, Madhya Pradesh, India

EDUCATION

Vellore Institute of Technology   2022 – 2026
B.Tech in Computer Science and Engineering, CGPA: 7.77/10

TECHNICAL SKILLS

Programming Languages: Java, C++, Python, JavaScript, TypeScript, SQL, HTML, CSS
Web & Frameworks: React, Next, Node, Express, Spring Boot
Data Science & ML: Machine Learning, NLP, Data Analysis, TensorFlow
Databases: MySQL, MongoDB
Coursework: Data Structures & Algorithms, DBMS, Operating Systems, Computer Networks, OOPs, Amazon AWS

WORK EXPERIENCE

VLSI Design Intern   Jan 2025 – March 2025
Verilog, RISC-V, RTL Design, Xilinx, Vivado, ModelSim, Digital Logic

- Designed and simulated a 5-stage RV32I processor pipeline in Verilog, covering fetch to write-back; ensured full instruction-level functional correctness.
- Built synthesizable RTL modules compliant with RISC-V ISA, and performed functional verification using ModelSim, improving execution accuracy by 25%.
- Developed control & datapath units using FSM and combinational logic, optimizing instruction decoding and reducing latency during processor operations.

PROJECTS

Onebox – AI-Powered Email Aggregator — Node.js, TypeScript, React, Elasticsearch, Ollama   June 2025

- Built a full-stack real-time email aggregator supporting multi-account IMAP sync, reducing email retrieval latency by 70% using persistent IDLE connections & WebSockets.
- Built a Dockerized Elasticsearch-based search engine, enabling less than 200ms query time across 10k+ emails with high-speed indexing.
- Integrated Ollama (Llama 3:8b) for on-device AI categorization and RAG-based reply generation, achieving 92% classification accuracy and 60% reduction in manual response time.
- Developed a modern React + TypeScript UI with push notifications and webhook/Slack automation, improving user task efficiency by 35%.

Personal Finance Management API — Spring Boot, PostgreSQL, JWT, Hibernate, Maven   Sep 2025

- Built a secure RESTful API for personal finance tracking with JWT-based authentication & Spring Security, ensuring 100% protected endpoints and encrypted user data.
- Implemented transaction, budget & category management modules, enabling real-time financial monitoring and reducing manual tracking effort by 60%.
- Developed date-based filtering, budget calculations & analytics logic, enabling users to track spending trends across multiple months with less than 200ms response time.
- Designed an optimized PostgreSQL database schema with JPA & Hibernate, improving query performance by 40% and ensuring scalable data storage.

CERTIFICATIONS

MERN Full Stack Certification Program — Ethnus (2025)
The Bits and Bytes of Computer Networking — Google (2023)

EXTRA-CURRICULAR ACHIEVEMENTS

- Drove FinTech Club growth by 30% through strategic PR and outreach campaigns, significantly increasing student participation and engagement.
- Achieved 500+ Codeforces rating and solved 500+ problems across LeetCode, GFG, and CodeChef.

CO-CURRICULAR ACHIEVEMENTS

- Represented school at the National-Level Football Championship and secured a Silver Medal, demonstrating strong discipline, teamwork, and competitive performance.
- Engaged in multiple technical and sports activities, enhancing time management, collaboration, and problem-solving abilities beyond academics.