

ARYAN PUNDIR

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Summary

Final-year Computer Science undergraduate (VIT Vellore, AIR 17) and backend engineer with internship experience at Deutsche Telekom Digital Labs. Building scalable FastAPI and serverless AWS backends, real-time data pipelines, and AI-driven developer automation in C++ and Python.

Technical Skills

Languages: C++, C, Python, Java, JavaScript, SQL

Backend: FastAPI, REST APIs, WebSockets, Microservices, AWS Lambda, Amazon API Gateway

Frontend: React.js, HTML, CSS

Databases: MongoDB, Amazon DynamoDB, SQL, Schema Design, Indexing

Cloud & DevOps: AWS (Lambda, S3, DynamoDB, API Gateway, IAM, CloudWatch), Docker, CI/CD, GitLab CI

Tools & Practices: Git, GitHub, GitLab, Postman, VS Code, Unit Testing, Agile/Scrum, System Design

Core CS: Data Structures and Algorithms, Object-Oriented Programming, DBMS, Operating Systems, Computer Networks

Projects

Generative Digital Twin for Real-Time Energy Management *(in progress)*

2026 – Present

Python, FastAPI, MongoDB, WebSockets, AI/ML, IoT

- Building a scalable FastAPI backend for an AI-powered Digital Twin platform enabling real-time monitoring and autonomous energy optimization across industrial manufacturing systems.
- Designing REST and WebSocket endpoints for telemetry ingestion, equipment synchronization, and AI-service communication; 15+ endpoints implemented to date with sub-second push latency.
- Developing asynchronous MongoDB services and schemas for sensor data, energy metrics, and predictive analytics, sustaining 5,000+ writes per minute in current load testing.

FileFinder — Serverless File Management System | [Live Demo](#)

2025

React, AWS Lambda, Amazon S3, DynamoDB, API Gateway, IAM, CloudWatch

- Built a serverless file management platform on AWS Lambda, S3, DynamoDB, and API Gateway supporting upload, download, search, restore, and deletion, scaling to 1,000+ concurrent requests at near-zero idle cost.
- Engineered a soft-delete Trash Bin with file restoration and IAM-scoped access control, eliminating permanent data loss from accidental deletions.
- Implemented S3 pre-signed URLs for secure direct client-side uploads, cutting upload latency by 50% by bypassing the API layer entirely.
- Developed 4 REST APIs integrated with a React frontend and instrumented them with CloudWatch metrics and alarms, reducing mean debugging time by 60%.

CampusBookMart

2025

React.js, FastAPI, MongoDB

- Built a simple web application where students can buy and sell second-hand academic books.
- Added features to post book listings, view available books, search by title, and contact sellers.
- Used FastAPI for backend APIs and MongoDB to store user and book details.
- Developed a clean and responsive React.js frontend for easy browsing and listing management.

Experience

Software Development Intern

May 2026 – June 2026

Core Integra Global Services Pvt. Ltd.

India

- Implemented and debugged features for the Ctrl+F web application, resolving 25+ defects and reducing reported production issues by 30%.
- Partnered with a cross-functional Agile team to map application architecture and integrate frontend and backend components, reducing integration rework by 35%.
- Reviewed and merged 40+ pull requests using Git-based version control, catching 15+ defects pre-merge and maintaining code quality standards.

Summer Intern

May 2025 – June 2025

Deutsche Telekom Digital Labs

Gurugram, India

- Integrated OpenAI Codex with GitLab CI pipelines to automate code-issue detection across 30+ repositories, cutting manual review effort by 40% and surfacing 200+ latent defects.
- Built and tested product recommendation and cart modules alongside a 5-member Agile team, contributing to features serving a production e-commerce workflow.
- Delivered biweekly stakeholder demos and operated in a Git-based review workflow, shipping 3 automation modules adopted by the platform team.

Education

Vellore Institute of Technology

Aug 2023 – 2027

B.Tech in Computer Science and Engineering — CGPA: 8.63/10

Vellore, India

Mata Nand Kaur Public School

Apr 2022 – May 2023

Senior Secondary School (CBSE)

New Delhi, India

Achievements & Certifications

- Secured **All India Rank 17** in the VIT Engineering Entrance Examination (VITEEE).
- Event Coordinator, Guest Care Committee, Gravitas 2025, VIT - ran guest logistics across a 3-day national technical festival.