

Hirtic Selvavinayagam

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EDUCATION

Vellore Institute of Technology Sept 2022 – Present
B.Tech in Computer Science and Engineering Vellore, India
CGPA: 8.06 / 10

Asian International Private School Sept 2010 – Apr 2022
Grade 10 (CBSE): 90.8% | Grade 12 (CBSE): 86.0% Abu Dhabi, UAE

TECHNICAL SKILLS

Languages	Java, Python, C/C++, JavaScript, TypeScript, SQL
Backend & Frameworks	Node.js, REST APIs, Spring Boot, Spring Core, Spring MVC, Hibernate
Frontend & Technologies	React, HTML/CSS, Tailwind CSS, Bootstrap
DevOps & Tools	AWS, Git, GitHub, Docker, Postman, Linux, CI/CD, Agile/Scrum
Databases	PostgreSQL, MongoDB, Redis

WORK EXPERIENCE

Software Engineer Intern May 2025 – Jun 2025
Yokogawa UAE Abu Dhabi, UAE

- Designed a modular GUI for an Operator Training Simulator (OTS) using **Python** and **CustomTkinter**, implementing authentication, model selection, configuration management, and real-time status monitoring.
- Built and optimized **LSTM-based time-series models** and **XGBoost predictors** for industrial sensor and oil-well data, improving forecast accuracy by **18%** and identifying **12%** more high-performing wells.

PROJECTS

AvailAPI | *Java, Spring Boot, Quartz, PostgreSQL, React, Docker, JWT* [GitHub](#)

- Engineered a **multi-tenant SaaS monitoring platform** where teams register API endpoints and receive automated uptime tracking, latency trends, and SSL expiry alerts with **sub-60-second** incident detection.
- Built a **Quartz-based scheduling engine** persisted in PostgreSQL that survives server restarts, concurrently pinging 10+ endpoints per tenant on configurable intervals and logging time-series ping results.
- Implemented **JWT-based multi-tenant authentication** with thread-local tenant isolation, ensuring complete data separation across teams with role-based access (OWNER/MEMBER).

DealHive | *React, Node.js, Express.js, PostgreSQL, Docker, Tailwind CSS* [GitHub](#)

- Engineered a **full-stack price comparison solution** across 3+ e-commerce platforms including Amazon and Flipkart, optimizing user spending by up to **10%**.
- Built backend services using **Node.js** and **Express.js**, exposing **RESTful APIs** to fetch, process, and serve deal data to the frontend, handling 10+ product search queries per session.

FraudFind | *Python, NumPy, Pandas, PostgreSQL* [GitHub](#)

- Developed a Python-based fraud detection web tool using Streamlit that analyzes credit card transaction data with rule-based heuristics (geolocation, timing, anomalies, device use), enabling real-time identification of potentially fraudulent activities.
- Implemented statistical and behavioral fraud indicators including IQR outlier detection, transaction velocity, geolocation variance, device fingerprinting, and failed authentication tracking.

CERTIFICATIONS

AWS Certified Cloud Practitioner January 2026
Credential ID: c5a46586460a4846b3c55de16f772ab7

Microsoft Azure AI Fundamentals (AI-900) July 2024
Credential ID: dUaa-DwW2