

AMAN

Software Developer

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1 Summary

Dynamic Software Development Engineer with expertise in designing low-latency systems using C++, Python, and Django, complemented by deep knowledge of computer networks, computer architecture, and RDBMS. Proficient in asynchronous programming, FPGA simulation, and AI-driven solutions.

2 Skills

- **C++:** Low-latency programming, Boost.Asio, multithreading
- **Python:** Django, scikit-learn for AI, scripting
- **Core Computer:** Computer Architecture, Computer Networks (TCP/IP, UDP, Socket Programming)
- **RDBMS and SQL:** PostgreSQL, SQLite, query optimization, stored procedures
- **Web Development:** Django (web frameworks, async views), HTML, CSS, JavaScript (frontend for dashboards), React.js, deployment with AWS

3 Work Experience

Central Event Cell, Chandigarh University

2023–2024, Kharar, India

Event Management

- Served as a Team Representative, showcasing exceptional communication, leadership, and management skills.
- Successfully organized diverse events and drove team success while achieving organizational goals.

4 Certification

Databases and SQL for Data Science with Python

Mastered SQL for efficient data querying and Python for data analysis.

5 Key Achievements

- **2nd Place Holder in HACKTHEFEST:** Developed a cloud-based artist platform using React.js to empower local artists by connecting them to a global audience at Hackfest 2025, Chandigarh University.

6 Projects

Low-Latency Market Data Processor with C++ and Async Methods 2024, Chandigarh University

- Demonstrates low-latency programming, computer networks (socket programming), and computer architecture (cache-aware design).
- Async methods reduce I/O bottlenecks, critical for high-frequency trading (HFT).

AI-Driven Trading Dashboard with Django and Async APIs 2024, Chandigarh University

- Developed a Django-based web dashboard displaying AI-predicted trading signals for public and service markets.
- Utilized async APIs and SQL for data storage, optimized for low-latency data retrieval.
- Combines Django, SQL, computer networks (async APIs), and AI, showcasing full-stack capabilities and data-driven trading insights.

Cloud Portfolio Tracker

2025, Chandigarh University

- Developed a cloud-based portfolio tracker using React.js, enabling users to efficiently monitor and manage investment portfolios in real-time.

7 Education

Bachelor of Engineering in Computer Science 08/2021–05/2025, Chandigarh University

Intermediate with PCM 04/2021–04/2022, Bharat Vidya Mandir School, Barwala, Hisar

High School 04/2019–04/2020, Oxford Public School, Ukalana Mandi, Hisar