

YATIN ARORA

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SUMMARY

I am a Bachelor of Technology in Computer Science Engineering undergraduate with hands-on experience in building Java and Python-based software applications, APIs, and real-time data pipelines. Strong foundation in data structures, systems, databases (MongoDB, PostgreSQL, MySQL), and cloud infrastructure Services (AWS, Docker, Kubernetes, Kibana).

EDUCATION

Bachelor of Technology in Computer Science Engineering (CSE), SGT University

2022 – 2026 | Gurgaon, India

WORK EXPERIENCE

Software Engineer, Viavi Solutions Inc (On-Site)

03/2025 – Present | Gurgaon, India

- Built Java-based real-time service disruption monitoring features for ONT-800 network testers, processing high-frequency telemetry data across OSI layers.
- Made backend API's for optical network monitoring systems (ONMSi), enabling real-time data ingestion, processing, and visualization.
- Worked on distributed systems handling network-scale telemetry, improving system observability and fault diagnostics.
- Collaborated in Agile teams on design discussions, backlog grooming, and production deployments.

Software Engineering Intern – Data & Automation, Viavi Solutions Inc (On-Site)

06/2024 – 09/2024 | Gurgaon, India

- Coded Python-based automation pipelines using SCPi commands to collect, process, and store network test data from hardware devices.
- Built scripts to ingest real-time telemetry data, improving data accuracy by 20% and enabling faster diagnostics.
- Used AWS and VPN-based remote execution environments to manage test workflows.
- Authored technical documentation and release notes to support platform scalability.

Software Engineering Intern, National Instruments Inc (On-Site)

07/2023 – 08/2023 | Bangalore, India

- Engineered LabVIEW automation frameworks cutting manual collection time by 50% for data acquisition and storage, enhancing process efficiency by 35%.

PROJECTS

Chat Application - iOS

10/2025 – 12/2025

Chat application for iOS using Swift programming language and Firebase as backend storage server

API for Optical Network Monitoring System (Python)

07/2025 – 10/2025

Built a Python-based API for ONMSi (Optical Network Monitoring System) to integrate API calls, communicate with the server and host machine, and display real-time monitoring results. Performed functional, Automatic & Manual testing using Postman to ensure accuracy and performance.

Quality Service Disruption Feature for Optical Network Terminal Using Java

05/2025 – 07/2025

Implemented a Java-based GUI to interface with the ONT-800 (Optical Network Terminal) using SCPi commands, enabling real-time monitoring of service disruptions across OSI layers and detecting packet frame loss.

Disaster Management Full Stack Website & iOS Mobile Application

02/2025 – 04/2025

Built a full-stack disaster management web application for an inter-college hackathon, supporting both clients and staff. Enabled staff to issue emergency alerts, share base camp locations, and track clients via real-time map updates. Also coded a companion iOS mobile app running on a local server.

Real-Time Data Pipeline & Analytics Dashboard

09/2024 – 11/2024

Designed a real-time data pipeline to ingest API data, process it, and visualize metrics using Power BI & Implemented data ingestion, transformation, and monitoring workflows, simulating production data engineering use cases.

Network Testing Automation Software using Python Programming

06/2024 – 09/2024

A remote automation software solution in Python programming for Viavi's MTS5800 & ONA800 network testing device, allowing users to control hardware functions using SCPi commands with minimal manual intervention.

TECHNICAL SKILLS

Programming — Java, Python, JavaScript, Linux

Databases — MongoDB, PostgreSQL, MySQL, Firebase

Tools, Frameworks & Technologies — **API Testing:** Postman, Insomnia | **Monitoring & DevOps:** Docker, Kubernetes | **Frontend Frameworks:**

React.js, Angular, SpringBoot | **Analytics & BI:** Power BI | **Programming Concepts:** Data Structures & Algorithms, Computer Networks | **Other**

Tools: LabVIEW, Raspberry Pi, IoT devices, Jira

Soft Skills — Analytical Thinking, Communication, Agile & Scrum Methodologies, Customer Technical Solution demonstration

CERTIFICATIONS

Certified Project and Product Management Associate — PMI (Project Management Institute) • **Java** — Infosys & LinkedIn • **Python** — Infosys & Coursera • **SQL Advance** — LinkedIn Learning • **Databases** — MongoDB • **Software Testing** — CompTIA