

# 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