

# Anvesha Nayak

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## EDUCATION

### PES University

Bachelor of Technology in Computer Science and Engineering : CGPA- 8.61

### Delhi Public School Bangalore South

Senior Secondary School : Percentage- 96.2

Bangalore, India

August 2021 – May 2025

Bangalore, India

June 2019 – May 2021

## EXPERIENCE

### Software Development Engineer I | Expedia Group

August 2025 - January 2026

Java, SpringBoot, Python, TypeScript, GenAI - MCP, RAG

- MCP Agent:** Developed an MCP Server and Agent with **RAG-based chatbot** integration to automate user query resolution, **reducing manual intervention by 60%**. Engineered **dual-mode Okta authentication** supporting both user-based and service account-based access patterns.
- Schema Deploy Service:** Built REST API endpoint in Java Spring Boot to fetch **real-time** cluster information, **reducing redundancy** by leveraging internal API instead of direct AWS calls. Resolved **critical production bugs** in both UI and backend service, preventing user downtime.
- DataDog Dashboard:** Created **2 new** monitoring views and **enhanced 3 existing** dashboards to **track usage patterns and failure rates** for Schema Deploy Library integration.

### Software Development Engineering Intern | Zebra Technologies

January 2025 - July 2025

Java, Flutter, Python, Flask, Kubernetes, GenAI - RAG

- Release Manger:** Engineered Flutter-based platform serving **50+ users** across engineering teams, replacing fragmented email/message tracking with **centralized release management**. Deployed on **Kubernetes** with **Helm** for scalable, automated workflows.
- Log Analyzer:** Built GenAI-powered log analysis tool using **Azure OpenAI** and **RAG with vector embeddings** to automate root cause analysis. **Reduced troubleshooting time by 70%** through automated RCA, documentation-based resolution steps, and code-referenced fixes.

### Summer Intern - Software Development Engineering | Expedia Group

June 2024 - July 2024

Python, Go, Java, GraphQL

- Designed and developed a **utility to render details of 800+ microservices**, such as framework and version for all active services under VRBO.
- Extracted data** from MoT and GitHub API to **create a comprehensive view** of all apps to aid cloud stabilization initiatives undertaken by other developers.
- Optimized data extraction using **async methods**, reducing processing time **by 80%**.

## PROJECTS

### Agri-Predict | Python, ML Modeling, Feature Engineering, Flask API, React

February 2025

- Architected machine learning pipeline integrating **real-time** weather based crop yield prediction ( $R^2=0.75$ ) and irrigation forecasting ( $R^2=0.90$ ) to maximize yields and optimize irrigation. Fine-tuned based on crop growth and pest/disease cycles, **reducing water usage by 15-30%** while improving crop outcomes.
- Published Research Paper in **International Conference on Agents and Artificial Intelligence 2025** with an acceptance rate of 16%

### Wander-Wise | React, NextJS, TypeScript, MUI

August 2023

- Created a **fully-responsive travel application** integrating **3 real-time APIs** (Google Maps, TravelAdvisor, Weather) to provide up-to-date information on attractions, hotels, and restaurants across global destinations.
- Implemented **location-based search** powered by Google Maps Autocomplete API, **reducing search time by 25%** through instant auto-complete suggestions

## TECHNICAL SKILLS

**Languages:** Java, Python, Go, SQL (MySQL), JavaScript, TypeScript, HTML/CSS, MATLAB

**Libraries:** pandas, NumPy, Matplotlib, NetworkX, PyTorch, scikit-learn

**Frameworks:** Spring-Boot MVC, React, Flask, Node.js, Material-UI

**Developer Tools:** AWS, GCP, Azure OpenAI, Docker, Kubernetes, Helm Charts