Abhinav Dwivedi

Software Engineer · DevOps and QA Automation · CI/CD

Noida, India · abhinavd372@gmail.com · +91 9702854686

linkedin.com/in/abhi-astral · github.com/abhinav37-git · abhinavdwivedi.pro

SUMMARY

Entry-level software engineer with hands-on CI/CD, software testing and enterprise platform support experience, plus Python, Java and Go projects. IEEE author and hackathon participant.

EXPERIENCE

Software Engineer (Data Platform), HCLTech — Noida, India · Oct 2025 – Present

- Developed and tested the migration of 100+ pipelines from IBM DataStage to Matillion and Snowflake in a team of six; automated source-to-target checks on 50+ tables caught defects before release.
- Now administer the Matillion and DataStage enterprise platforms: run debugging sessions, resolve developer errors and sometimes monitor Grafana.
- Worked with the DevOps team to understand and use Azure DevOps CI/CD pipelines, and automated Dev, QA and Prod releases to remove manual steps.
- Wrote Python scripts to group recurring failures in Unix job logs, cutting troubleshooting from 3 hours to 30 minutes.

Graduate Engineer Trainee, Java Automation Testing, HCLTech — Noida, India · Jul 2025 – Sep 2025

- Trained in QA and Java test automation: writing automated test cases, running them and reporting defects.

Research Intern, Samsung R&D Institute Bengaluru — Remote · Jun 2023 – Dec 2023

- Built Python (Django/Flask) services and machine learning models on IoT sensor data (99% accuracy).

Certificates: Certificate of Excellence · Internship Certificate

PROJECTS

Cross-platform social app with interactive AI (in progress)
Android, iOS, web · Google Antigravity IDE, Codex, Gemini

- Building an app that connects people through interactive AI experiences, using AI coding tools.
- Test on Android (SDK), iOS (Xcode) and web; Codex writes test scripts and Gemini models run the tests.

Terminator Sec: DNS security filter
Go, Swift · github.com/velithsoftware/terminator_sec

- Built an open-source tool that blocks malicious domains before a connection is made, written in Go.

QuantumShield: post-quantum security tools
Go, Next.js · github.com/velithsoftware/post_quantum_defence_suite

- Built a proxy and certificate authority using post-quantum encryption for secure connections.

SKILLS

Languages: Python (FastAPI, Flask, Django), Java, Go, SQL, Bash
DevOps and QA: Azure DevOps CI/CD, Git, Linux/Unix, test automation, debugging, DevSecOps (training)
Platforms: Matillion, IBM DataStage, Snowflake, Grafana, ETL pipelines, microservices, REST APIs
Familiar with: LangChain, MLflow, SageMaker, Databricks, Vertex AI, Azure ML, ArgoCD

PUBLICATIONS AND COMMUNITY

A. Dwivedi, G. K. Saini, U. I. Musa. Cybersecurity and Prevention in the Quantum Era. 2023 2nd International Conference for Innovation in Technology (INOCON), IEEE, 2023. doi:10.1109/INOCON57975.2023.10101186

A. Dwivedi, K. Sood, N. Aggarwal, H. H. J. Sapingi. Interactive Learning Module Dashboard and Student Management Application for Classroom. CRC Press (Taylor & Francis), 2026. doi:10.1201/9781003781011-91

Hackathon participant. Open-source maintainer of Terminator Sec and QuantumShield.

EDUCATION AND TRAINING

B.E. Computer Science, Chandigarh University, Mohali, India — 2021 – 2025

DevSecOps courses (HCLTech). Google Certified Gemini Enterprise Specialist: Agent Development · Deployment