

DRIDI ALI

STUDENT AT THE NATIONAL INSTITUTE OF APPLIED
SCIENCE AND TECHNOLOGY (INSAT)

CONTACT

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PROFILE

- Computer Science student with hands-on experience in DevOps, full-stack development, and game development. Enthusiastic about artificial intelligence, with experience in managing cloud infrastructure, building secure and scalable web applications, and creating interactive digital experiences.

EDUCATION

NATIONAL INSTITUTE OF APPLIED SCIENCE AND TECHNOLOGY (INSAT)

2022-2024

- Integrated Preparatory Cycle – Mathematics, Physics, and Computer Science (MPI)

2024-2027

- Information and Communication Technology engineering

SKILLS

- **Programming:** Python, Java, C, C++, C#, Go, Bash scripting
- **Web:** HTML, CSS, JavaScript, PHP, Java EE, React, Express, Vue
- **Relational SQL:** MySQL, PostgreSQL
- **NoSQL:** MongoDB
- **Linux:** Strong skill of the Linux environment
- **Cloud:** AWS Cloud Practitioner (basics of EC2, S3, IAM)
- **ACE Multicloud Network Associate**
- **Containers:** Docker
- **Orchestration:** Kubernetes
- **CI/CD:** Jenkins
- **Networking:** CCNA 1, CCNA 2, CCNA 3
- **Version Control:** Git, GitHub
- **Game Development:** Unity (C#)
- **Operations Research:** Modeling and optimization with Gurobi
- **Languages:** English, French, Arabic

EXPERIENCE

DevOps & Network Intern — Sagemcom (July 2025 -August 2025)

- Developed a Cisco device monitoring dashboard (FastAPI backend + Vue.js frontend) to track OS versions, CVEs, and End-of-Life status ensuring up-to-date compliance.
- Automated device data collection with Ansible (IOS/NXOS) and integrated Cisco APIs & web scraping for recommended versions eliminating manual checks.
- Built a modular pipeline for CVE checks, lifecycle analysis, and historical snapshots, with automated email notifications.
- Created Jenkins jobs to schedule runs, archive results, and automate reporting.
- Containerized the application with Docker for consistent deployment across environments.
- Improved operational visibility by centralizing logs, history, and device inventory into a unified dashboard.
- Technologies: FastAPI, Vue.js, Ansible, Jenkins, Docker, Python, Selenium, Linux Bash scripting, SMTP

PROJECTS

Workforce and Resource Optimization Application

- Development of a desktop application with two distinct modules :
- Resource distribution (water, electricity) : optimized based on distance, availability, and customer satisfaction.
- Workforce allocation : optimized according to salary, geographical preferences, labor laws, and added value.
- Technologies used: Python (Gurobi), Flask (backend API), Electron (desktop interface in JavaScript).

Mini Bookstore Web Application

- Multilingual Spring Boot bookstore application with user authentication, shopping cart, and order management.
- Features: User registration and authentication, book catalog display, shopping cart management, order processing, internationalization (English/French), H2 in-memory database, Bootstrap UI.
- Technologies: Spring Boot 3.4.5, Spring Security, Spring Data JPA, Thymeleaf, H2 Database, Bootstrap 5

Mobile Application Development with Flutter (Dart) :

- Healthcare Application - Mobile app designed to monitor and manage health-related data