HAMZA QURESHI

(DevOps Engineer in Training)

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Computer Science undergraduate currently in the 5th semester, with focused experience in DevOps, automation, and cloud infrastructure. Proven ability to deliver production-ready systems using containerization, CI/CD pipelines, and cloud-native tooling. Seeking to apply technical expertise in a telecom-focused DevOps internship at Switch Communications.

TECHNICAL SKILLS

DEVOPS & CLOUD:
Docker, Docker Compose, CI/CD (GitHub Actions), Linux (Ubuntu/Debian), Git, Kubernetes (basic), AWS EC2 & S3

AUTOMATION & SCRIPTING:
Python, Bash, Shell scripting

NETWORKING & TELECOM:
TCP/IP, basic understanding of SIP, SMPP, VoIP (independent learning via labs)

ML & VISION:
TensorFlow, OpenCV, YOLOv5, Roboflow, REST APIs

EMBEDDED & SYSTEMS:
Arduino, C/C++, NASM Assembly, PlatformIO

OTHER TOOLS:
GitHub, GitLab, VS Code, DOSBox, GCP basics

PROJECTS & EXPERIENCE

WEAPON DETECTION AI (CI/CD-INTEGRATED, CONTAINERIZED) — Github Repo
Tech: TensorFlow, Python, OpenCV, GitHub Actions, Docker
- Developed an AI-based detection system for weapons in image data.
- Deployed as a Dockerized REST API with CI/CD pipelines managing testing, containerization, and delivery.
- Focused on reliability, container integrity, and automated deployment workflows.

AUTONOMOUS BOAT (EMBEDDED NAVIGATION SYSTEM) — Github Repo
Tech: Arduino, Raspberry Pi, GPS, Ultrasonic Sensors
- Built a GPS-guided autonomous boat with ultrasonic obstacle detection.

- Implemented embedded control software in C++ with real-time input handling and navigation logic.
- Designed modular hardware-software architecture for field experimentation.

NASM ASSEMBLY PROJECTS

Tech: NASM (x86), DOSBox

- Created and executed low-level assembly programs in a DOS emulation environment.
- Developed routines involving direct memory access and system-level computation.

LINUX ENVIRONMENT & BASH SCRIPTING

- Daily user of Linux (Ubuntu/Debian-based systems) for development and operations.
- Experienced in writing and executing Bash scripts for automation and system tasks.

EDUCATION

Bachelor of Science in Computer Science

Information Technology University (ITU), Punjab
5th Semester, Expected Graduation: 2027

A-LEVELS & O-LEVELS

BeaconHouse College Program JT

DOMAIN-SPECIFIC QUALIFICATIONS

- **CI/CD pipelines implemented across all major projects via GitHub Actions.**
- **Proficient in Dockerized deployments of production-ready AI and embedded systems.**
- **Strong foundational experience with Linux environments and shell scripting.**
- **Actively learning SIP, SMPP, and telecom automation workflows relevant to VoIP.**
- **Familiar with cloud environments services such as AWS EC2.**

STATEMENT OF PURPOSE

Proven capacity to engineer, automate, and deploy systems using production-grade tools. Work reflects a flexible, process-driven mindset aligned with systems engineering principles. Prioritizes reproducibility, reliability, and infrastructure as code. Technically equipped to contribute to telecom and DevOps domains with minimal ramp-up.