

AYESH AHMAD

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SUMMARY

Dedicated junior year software engineering student enthusiastic about researching, developing, and integrating multi-domain projects for a practical solution beneficial to the general public

EDUCATION

National University of Science and Technology (NUST)

H-12, Islamabad

Bachelor of Engineering in Software Engineering

Nov 2021 - Jun 2025

- **Courses:** Calculus & Analytical Geometry, Computer Architecture & Logic Design, Linear Algebra & Ordinary Differential Equations, Probability & Statistics, Database Systems, Data Structures & Algorithms, Computer Networks, Software Engineering, Design & Analysis of Algorithms, Software Design & Architecture, Operating Systems, Cloud Computing, Embedded Systems, Web Engineering, Formal Methods, Software Quality Engineering, Software Project Management, Human Computer Interaction

RESEARCH EXPERIENCE

Optical Networks and Technologies Lab (ONT)

H-12, Islamabad

Research & Development Intern

Jun 2023 - Sep 2023

- Researched and documented the SONiC open-source Networking Operating System and its integration with remote development software such as Ansible.

SKILLS

- **Languages:** Python, Java, C, C++, SQL, Bash
- **Libraries:** PyTorch, Tensorflow, Keras, Numpy, Pandas, Matplotlib, Scikit-Learn
- **Tools:** Git, GitHub, Colab, Jupyter Notebook, Google Cloud Platform, VS Code, Linux
- **Full-stack Web Development:** HTML, CSS, PHP, Javascript, Laravel, Django, MERN Stack
- **Remote Development:** Ansible, Linux
- **Cloud Development:** GCP, Azure, AWS, Docker
- **Soft Skills:** Problem Solving, Leadership, Teamwork, Time Management, Effective Communication Skills, Empathy, Agile Software Development

PROJECTS

Open House Management System

https://github.com/a-ayesh/SC_open_house

Laravel: Customizable Open House Management Platform fully developed and tested.

Massively Available Surveillance System (M.A.S.S.)

<https://github.com/a-ayesh/mass>

Google Cloud Platform, Google Cloud Vision API, MQTT Broker, ESP32-CAM: IoT/Cloud driven solution to develop a cheap, modular, and decentralized A.I. surveillance system to monitor and report general crimes.

MetroMaps

<https://github.com/a-ayesh/MetroMaps>

MERN Stack, Mapbox GL JS, Google Maps Platform: A community project intended to centralize fragmented Metro service information within Pakistan and provide a platform to make Metro usage convenient.

Chest Cancer Detection Portal

<https://github.com/a-ayesh/MLOps-chest-cancer-classification>

AWS, Flask, MLflow, DVC, Docker, GitOps: End-to-end pipeline leveraging MLflow and DVC with CI/CD deployment of a containerized web application providing a portal to upload and classify chest cancer images.