

JAWAD ZAHEER

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EXPERIENCE

Research Assistant

Aalto University

Feb 2022- Present

Helsinki, Finland

- Working on my Master Thesis: "Tracing online sharing of documents using watermarking". We will be developing a robust PDF watermarking tool for exercise documents, seamlessly integrated into the course platform for scalability to thousands of students.
- Targeted for Mathematics and Computer Science departments, ensuring availability to professors and deterring online solution sharing.
- Skills:** Python (Flask), Information Security, Cybersecurity, Cloud Computing

Cloud Developer Intern

Ericsson

Apr 2023 - Aug 2023

Helsinki, Finland

- Conducted risk analysis to identify threats and entry points in metal3.io bare metal host repositories. Detected software vulnerabilities through fuzzing implementation.
- Strengthened security in metal3 repositories by applying security standards to Kubernetes pods during deployment.
- Configured TLS settings for metal3 project CAPI provider repositories, adapting to security requirements with unit tests in Go for diverse configuration scenarios.
- Skills:** Kubernetes, Go, Cloud Security, Risk Analysis, Information Security, Jenkins, Bash

Software Engineer - Backend Developer

Emumba Pvt Ltd.

Nov 2021 - Aug 2022

Islamabad, Pakistan

- Created unit tests for Intrado's healthcare live chat portal, ensuring a high-quality service deployment.
- Designed Electronic Health Record workflows for COVID-19 and other cases, managing real-time SMS and IVR-based patient responses for prompt diagnoses.
- Skills:** Node.js, Unit testing, Typescript, MySQL, Websockets, Socket.io, Mocha, Chain

Backend Developer

Graana.com

May 2021 - Nov 2021

Islamabad, Pakistan

- Evaluated sales team Key Performance Indicators using quarterly property sales data for performance validation.
- Integrated Amazon Transcribe into the portal to provide sales teams with key property details from customer calls, streamlining information access.
- Implemented backend caching for quicker retrieval of property leads, enhancing query speed and overall operational efficiency.
- Skills:** Node.js, Redis, Javascript, PostgreSQL, AWS (S3, Transcribe), GCP, GitLab CI/CD

Software Engineer - Full Stack Developer

Syntax Squad Pvt. Ltd

May 2020 - Apr 2021

Islamabad, Pakistan

- Developed a scalable backend architecture for the application comprising of order booking and PDF report generation, sourcing data from Radon Adapters for increased revenue generation of the clients.
- Integrated APIs for payment invoices and subscriptions, enabling accessibility for other radon detection companies.
- Devised algorithms for state-wise radon level statistics and job insights, optimizing costs and time for customer property visits.
- Skills:** Node.js, Next.js, React.js, MongoDB, IoT, AWS (EC2), Docker, Material UI

PROJECTS

Blockchain Based Vehicle Registration and Verification — *Bachelor Thesis Project*: Developed a blockchain-based solution aimed at verifying the authenticity of vehicles. Successfully presented the solution to the excise department, guaranteeing the prevention of counterfeit vehicle registrations.

Skills: Hyperledger Fabric, Node.js, React.js, CouchDB, System Architecture Design, AWS (EC2), Docker

EDUCATION

M.Sc (Security & Cloud Computing)

Aalto University & DTU (4.7/5.0)

Helsinki, FI / Copenhagen, DK

2022 - 2024

Software Engineering,

National University of Sciences & Technology (3.76/4.0)

Islamabad, Pakistan

2016 - 2020