FAHAD SALIM DALWAI

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SKILLS

Languages	**Java**, **Python**, C, C++, SQL, **Kotlin**, HTML, CSS, JavaScript, **Go**, PHP, JavaScript (ES5/ES6)
Frameworks	Flask, **Firebase**, MySQL, SciKit, **TensorFlow**, JUnit, PyTorch, Node.js, **FastAPI**, Bootstrap, **Vue.js**
Libraries	**AWS**, REST APIs, Material UI, **Docker**, Jira, JQuery, **Git**, OpenCV, Dependency Injection
Skills	Front-end, **Agile**, Back-end, Unit testing, Micro-services, **CI/CD**, SCRUM, Kanban, **DevOps**

WORK EXPERIENCE

Ooredoo Qatar - Software Engineering Intern   **Jan 2024 - April 2024**

- **Developed** Internal knowledge base web app for 400 employees using VueJS and Bootstrap for team-based repository storage. **Utilized** ElasticSearch and Kibana for document-wise searching and visualization of team document statistics.
- **Engineered** backend with Go and SQL for the SOC team, and **containerized** application with Docker for deployment.
- **Built** GenAI chatbot using AWS BedRock and Claude LLM with AWS Titan for Retrieval Augmented Generation to **identify** best OData API required in SAP S/4HANA based on employees use cases.

Oohalo Technology Ltd - Machine Learning Intern   **May 2023 - June 2023**

- **Optimized** 3 TensorFlow models, performed data engineering and selected suitable ML algorithms with over 90% accuracy for 3 clients located in Hyderabad. Deployed robust scalable APIs on AWS Lambda in Python.
- **Developed** 6+ APIs in Python using FastAPI and Flask for sample demonstrations of NLP services such as malicious link classifiers and toxicity detection on the company website.

RESEARCH EXPERIENCE

University of Auckland - Research Intern   **July 2023 - August 2023**

- **Spearheaded** development and modifications to **enhance** the CLAVIN-NERD location-based entity recognition system by 5% using distilBERT in an ensemble with existing models for NZ-based company Signal Corporation.
- **Generated** use-case scenarios, extracted practical insights and explored NLP strategies with a 6-member team.

PROJECTS

MeetIn (*Kotlin, Retrofit, Dagger Hilt, Coil, Moshi, Room, Coroutines, ViewModel*)

- Android app with 100+ downloads for VIT students with features like profiles, feeds, friends, and bulletin board.
- Utilises MVVM and repository architecture with dependency injection; reducing code complexity by 40%.

Textractify: PDF extract to RDS (*Python, AWS Lambda, AWS SNS, Textract, RDS, S3 Storage VPC, CloudWatch*)

- Pipeline using Pub/Sub model with Textract to extract tables and key-values from PDFs with AWS SNS asynchronously.
- Lambda functions to sanitize JSON and insert into S3 and MySQL RDS in VPC with CloudWatch monitoring dashboard.

IDShield: Stacked FT-Transformer IDS (*Python, TensorflowSklearn, Numpy, Seaborn, matplotlib*)

- Weighted stacked intrusion detection system with base modified transformer using feature-tokenizer for network packets.
- Utilises SVM, LR, CART, KNN and Random Forest in voting algorithm with transformers achieving accuracy of 98%.

EXTRA-CURRICULAR ACTIVITIES

- **Applications Lead** at International Society of Automation, **Committee Member** at Google Developer Student Club. Organized 7 hackathons/CTFs, 6 webinars, published 4 apps, and mentored 150 students.
- **2x Kaggle Expert** with highest global rank of 1,177/300K users. Youth Red Cross **Volunteer**. **8.5/9.0** on IELTS.

COURSES AND CERTIFICATION

- Microsoft Certified: *Security Compliance & Identity*, MongoDB Basics Certification, Python for ML & Data Science Masterclass, Microsoft Certified: *Azure AI Fundamentals*, Kaggle Certification: *Computer Vision*, *JP Morgan* Virtual Experience

EDUCATION

University of Illinois Chicago   **August 2024 - May 2026**
Master in Science - Computer Science - Data Structures and Algorithms, DBMS

Vellore Institute of Technology, India   **August 2020 - May 2024**
Bachelor's in Computer Science - Computer Networks, Operating Systems (CGPA 3.8)