

FAHAD SALIM DALWAI

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EDUCATION

University of Illinois Chicago

Master's in Computer Science - Data Structures and Algorithms, Distributed Systems

August 2024 - May 2026

Vellore Institute of Technology, India

Bachelor's in Computer Science - Computer Networks, Operating Systems (CGPA 3.8)

August 2020 - May 2024

SKILLS

Languages: Java, Python, C, C++, SQL, Kotlin, HTML, CSS, Go, PHP, JavaScript (ES5/ES6), JSON

Frameworks: Flask, Firebase, SciKit, TensorFlow, JUnit, PyTorch, Node.js, FastAPI, Bootstrap, Vue.js

Libraries: AWS, REST APIs, Material UI, Docker, Jira, JQuery, Git, Azure, MongoDB, 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 10 team-document statistics.
- **Built** a GenAI chatbot using AWS BedRock and Claude LLM with AWS Titan and Retrieval Augmented Generation to **identify** the best OData API out of 200 in SAP S/4HANA, resulting in a 70% faster API retrieval for employees.
- **Deployed** backend server using Go and SQL and containerized with Docker, reducing data retrieval time by 40%.

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 endpoints on AWS Lambda using AWS API Gateways in Python.
- **Developed** 6+ APIs in Python using FastAPI, FastAI and Flask to demonstrate and promote NLP services on the company website, including malicious link classifiers and comment toxicity detection.

University of Auckland - Research Intern

July 2023 - August 2023

- **Spearheaded** development and modifications to **enhance** the CLAVIN-NERD location-based entity recognition system using distilBERT with tree-based deep learning models for Signal Corporation, increasing accuracy by 5%.
- **Collaborated** with 6-member team to generate use-case scenarios and test NLP strategies such as NER and topic modeling.

PROJECTS

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

- Android app with 100+ downloads in Play Store for VIT students with profiles, feeds, friends, and bulletin board features.
- Utilises MVVM and repository architecture with dependency injection and use-case entities with Firebase backend for storage.

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, Tensorflow, Sklearn, 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 Master-class, Microsoft Certified: *Azure AI Fundamentals*, Kaggle Certification: *Computer Vision*, JP Morgan Virtual Experience