

ZULAIKHA (ZUZU) HABIB

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Work Rights: Australian Graduate Visa (Full-Time)

PROFESSIONAL SUMMARY

Software engineer specialising in LLM-powered applications, cloud automation, and full-stack development. CS graduate from the University of Melbourne (Computing & Software Systems) and AWS Certified Generative AI Developer. Founder of Dabozai, a training platform teaching agentic AI and prompt engineering.

SKILLS & CERTIFICATIONS

Certifications: AWS Certified Generative AI Developer – Professional | PCAP (Certified Associate in Python) | AWS Certified AI Practitioner

Proficient: Python, JavaScript (React), SQL (PostgreSQL), LangChain, RAG, FastAPI, AWS (Lambda, S3, IAM, API Gateway), Docker, Git

Working Knowledge: scikit-learn, NLP (spaCy, NLTK), Google Cloud Run, Supabase, Vercel, LangFlow, Strands Agents, Composio

Practices: Agile/Scrum, CI/CD, Data Structures & Algorithms, REST API design

EDUCATION

Bachelor of Science (Computing and Software Systems) 2022–2025

The University of Melbourne | Melbourne International Undergraduate Scholarship

EXPERIENCE

Founder and Gen AI Tutor Oct 2025–Present

Dabozai | Melbourne, VIC

- Operate Dabozai as a solo venture — handling branding, platform setup, student acquisition, enrolment, scheduling, facilitation, and feedback loops end-to-end
- Delivered 10 sessions across 2 cohorts (5 students each), continuously iterating curriculum based on direct student feedback to improve clarity and engagement each cycle
- Translate complex AI and robotics concepts into structured, beginner-friendly lessons for diverse skill levels

Cloud & Development Intern (Part-Time/Full-Time) Sep 2024–Dec 2025

Kloudfocus | Melbourne, VIC

- Assisted in building an “AI Scribe” for GPs using Amazon Bedrock (Claude) and LangChain, automating the conversion of patient consultations into structured clinical SOAP notes
- Developed Python scripts for RAG-based document retrieval in Aged Care, allowing staff to query resident care plans and policy manuals via a vector database (Amazon OpenSearch)
- Built data pipelines using Amazon Comprehend Medical to identify and mask PII (Personally Identifiable Information), ensuring all AI-processed datasets met Australian health privacy standards
- Participated in design sessions evaluating AI model performance vs. cost, contributing to infrastructure decisions involving AWS Lambda, API Gateway, and serverless scaling
- Supported the 12-month lifecycle of AI feature deployment, from initial prompt engineering and “hallucination” testing to post-implementation cloud monitoring and performance tuning

Tech: Python, AWS (Bedrock, Lambda, S3, IAM, Comprehend Medical), LangChain, SQL (PostgreSQL), Docker, Git

Software Engineering Intern Apr–Sep 2021

Gulf Candle Technologies | Riyadh, Saudi Arabia

- Automated data parsing and loading pipelines in Python, reducing manual processing effort by approximately 70% and improving data accuracy for the operations team
- Built scripts to identify unused AWS resources and generate per-department cost reports, contributing to cloud spend optimisation across the organisation

- Presented AI/ML fundamentals to non-technical teams at age 18, translating complex concepts into accessible overviews for cross-functional stakeholders
Tech: Python, AWS (S3, Cost Explorer, IAM)

Level 3 Retail Assistant Aug 2024–Apr 2025

NBA Emporium | Melbourne, VIC

- Delivered high-quality customer experiences while meeting sales targets and supporting in-store events, activations, and team coordination
- Handled issue resolution on the floor, prioritising customer satisfaction and long-term loyalty

Level 2 Customer Service Team Member May 2022–Apr 2023

The Bagel Shop | Melbourne, VIC

- Led training and onboarding of new staff during the South Yarra store opening, establishing service standards and workflows
- Provided efficient service across multiple locations, managing orders, preparation, till operations, and open/close routines

PROJECTS

Dabozai — Gen AI & Agentic AI Training Platform 2025–Present

- Founded and built a structured training platform combining theory with hands-on labs across prompt engineering, transformer architecture, AI agents, RAG, MCPs, and local model deployment
- Developed a secondary course covering robotics, sensor integration, and computer vision for object recognition

Tech: Python, LangChain, Strands Agents, AWS AgentCore, AnythingLLM, LangFlow, Composio, Claude Code

Mental Health Services Navigation Using LLMs Capstone Project

- Built an LLM-powered chatbot enabling users in Victoria to find tailored mental health services via natural language, integrating RAG with vector search, Google Places API, and geofencing for location-relevant results
- Designed and implemented data ingestion pipeline (cleanup, loading, vector embedding), auth module with RBAC using Supabase Auth and JWT tokens, and a React-based UI
- Led delivery as rotating Scrum Master — facilitated client workshops, stakeholder reviews, and sprint stand-ups; maintained scope and progress reporting across the team
- Evaluated deployment architecture through spikes and proof-of-concepts (AWS Lambda vs Google Cloud Run, API Gateway vs FastAPI), presenting trade-off analysis to the team

Tech: Python, LangChain, Supabase (Postgres + pgvector), React, Vercel, FastAPI, Google Cloud Run

Automating Operational Tasks Cloud & Security

- Built Python automation scripts across cloud infrastructure, CMDB management, and security compliance — replacing manual workflows that previously took hours per audit cycle
- Developed IAM security auditing tools: stale user detection (90-day inactivity), unused access key identification, permission audits, and public S3 bucket checks
- Automated AWS cost optimisation reports — identifying unused resources, untagged assets, and generating per-department billing breakdowns across multiple accounts and regions

Tech: Python, AWS (IAM, S3, Cost Explorer, Organizations)

Netflix Content Rating & Genre Prediction Machine Learning

- Built a genre prediction model using Logistic Regression on TF-IDF vectorised descriptions, tuning classification thresholds to optimise precision-recall balance (best F1 at 0.2 threshold)
- Developed a Random Forest regression model to predict IMDB/TMDB scores, votes, and popularity across genres; preprocessed ~5,850 titles (lemmatisation, stop word removal, null handling) and enriched missing data via IMDB and TMDB APIs

Tech: Python, scikit-learn, NLTK, spaCy, matplotlib, pandas