Dawar Waqar

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Software Engineer | Valid Canadian Work Permit | 2+ Years of Professional Experience

PROFESSIONAL EXPERIENCE

Tecsys Inc. | Full Stack Python Intern (Co-Op)   Jan 2025 – Apr 2025
Montreal, QC

- Designed and developed the real-time analytics dashboard for the company's conversational AI, **handling backend** (Flask, AWS DynamoDB, Redis, Celery), **frontend** (Streamlit, JavaScript)**, and deployment** (AWS).
- Deployed several microservices using Docker, AWS EC2, and Scripting, **ensuring streamlined deployment**.
- Built the data layer and frontend for the AI chatbot using PostgreSQL, Chainlit, JavaScript, and AWS S3 **enabling its production launch**.
- Engineered a flexible synthetic-data generator in Python to simulate complex warehouse operations, **boosting test coverage of Agentic AI workflow by 60%**.

Pakistan State Oil & Market Page | Lead Software Engineer (Independent Contractor)   Jan 2023 – Jan 2024
Remote

- Wrote a shared Jenkins library using Groovy standardizing lint-test-package stages across repositories, **cutting CI maintenance effort by 40% and lowering build-failure rate by 30%**.
- Built a modern gas-station ERP web platform with Django REST + PostgreSQL on the backend and a React frontend (TypeScript, HTML/CSS) **to manage fuel sales, financials, inventory, and users**.
- Deployed the system across multiple gas stations, automating day-to-day workflows and cutting operational time by **65%**.
- Provisioned AWS infrastructure with Terraform; deployed Docker workloads on an AWS EC2-based Kubernetes cluster, **enabling robust and self-healing deployments**.
- Developed reliable Django REST API endpoints and high-quality NextJS frontend components for Market Page's financial news aggregation and community forums platform, **delivering core functionality ahead of launch**.

Cowlar Design Studio (Y Combinator W17) | Full Stack Developer   Jun 2022 – Dec 2022
Islamabad, PK

- Developed, tested, and maintained RESTful APIs using NodeJS, ExpressJS, and Jest, enabling real-time product tracking on the viaPhoton factory floor, **improving production visibility by 40%**.
- Implemented CI/CD pipeline with GitLab CI, **reducing manual deployment efforts**.
- Developed **new user-facing features** using VueJS, Material UI, TypeScript, and HTML/CSS.
- Packaged backend utilities into versioned NPM packages published to the team's private registry, **enabling one-command installs and seamless rollbacks across projects**.

TECHNICAL SKILLS

- **Languages:** Python, JavaScript, TypeScript, Java, Go, Bash, Groovy, C/C++, SQL, HTML/CSS
- **Frameworks:** Django, Flask, NodeJS, ExpressJS, Spring Boot, React/NextJS, VueJS, Streamlit, Scikit-learn
- **Cloud & DevOps:** Docker, Kubernetes, Terraform, GitLab CI, Jenkins, AWS, Nginx, Linux, Maven, VMWare
- **Database Systems & Management**: PostgreSQL, MySQL, SQL Server, Redis, AWS DynamoDB, MongoDB

EDUCATION

University of Windsor, ON | Master of Applied Computing (GPA: **3.9**/4)   Jan 2024 – Apr 2025
Relevant Coursework: Distributed Systems, Networking & Data Security, Databases, Algorithms, Systems Programming, NLP, Applied AI

Lahore University of Management Sciences (LUMS), PK | BS Computer Science   Aug 2018 – Jun 2022

PROJECTS & AWARDS

- **EveryBodyEats** | TypeScript, Python, Django, PostgreSQL, React, AWS | 2025: Built a web platform connecting restaurants and NGOs to redistribute surplus food, implementing role-based access, Redis-backed real-time listings, and AWS SNS powered notifications **to reduce waste and combat hunger**.
- **DevOps Beginners to Advanced with Projects (Udemy)** | Certificate | 2025: Built end-to-end CI/CD and IaC pipelines with AWS, Jenkins, Terraform, Docker, etc.

- **Royal Canadian Navy Hackathon Winner** | [Article](#) | 2024: Developed an innovative flood damage control system for Royal Canadian Navy ships.
- **UWindsor Industry Project Competition Winner** | [Certificate](#) | 2024: Built a web-based multi-tenant interview scheduling system, **providing organized tracking and management** across business areas.
- **Distributed Fault-Tolerant Key-Value Storage Service** | Go, Raft | 2024: Developed a distributed key-value store using the Raft consensus algorithm, synchronizing Goroutines, implementing RPC-based operations, orchestrating leader elections, replicating logs, and ensuring system fault tolerance.
- **Predictive Credit-Scoring Engine** | Python, LightGBM, XGBoost, CatBoost, Scikit-learn, Pandas | 2024: Built a Machine Learning pipeline that, after thorough Exploratory Data Analysis and feature engineering (imputation, categorical encoding, normalization), **delivers high-accuracy predictions of borrower creditworthiness to streamline loan-approval decisions**.
- **Real Estate Marketplace** | Java, TypeScript, Spring Boot, React | 2024: Built a tool that scrapes and aggregates property listings from multiple sites, applies user preferences, and displays personalized recommendations.
- **Distributed File System** | C, Linux, Sockets | 2024: Created a distributed file system using 3 servers, **enabling seamless file management** with client-server communication only across a specialized server.