TAYOUTH MALLA

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Summary

Full-stack **Software Engineer** with 5+ years of experience designing and delivering **secure, scalable, and cloud-native applications** across finance, healthcare, and education. Proven success delivering **AI-powered platforms**, **CI/CD pipelines**, and full-stack apps on **AWS and GCP** with **100% client satisfaction** as a Top-Rated Upwork engineer. Skilled in **Java, Spring Boot, Python, Next.js, Docker, and cloud infrastructure**, with a strong track record of driving reliability, performance, and seamless user experiences.

WORK EXPERIENCE

UNT North Texas NOW! & College of Applied & Collaborative Studies **Aug 2024 - Present**
Graduate & Teaching Assistant *Texas, USA*
- Analyzed **150+ institutional datasets**, uncovering trends that shaped academic retention strategies.
- Guided 100+ students on Python, SQL, and data visualization (Tableau, Power BI), improving project outcomes by **15%**.

Verity Advisors **Feb 2025 - May 2025**
Data Engineering Intern *Texas, USA*
- Designed ETL pipelines (AWS Glue, Lambda, Redshift) to process 1M+ records weekly, reducing reporting latency by **40%**.
- Built automated reporting workflows with API integrations and AWS SES for daily stakeholder updates.
- Enhanced query performance by integrating structured and unstructured datasets into Redshift.

Upwork **Dec 2022 - Jan 2024**
Full Stack Software Engineer (Top-Rated) *Remote*
- Delivered cloud-based apps with React, Next.js, Django, and FastAPI on AWS, Firebase, and GCP.
- Achieved **100% Job Success Score** and Top-Rated status within 2 months.
- Built custom dashboards and reporting tools for global clients, improving KPI visibility.

OIIKA Inc. **Oct 2021 - Mar 2022**
Frontend Engineer *Ontario, Canada*
- Implemented the user interface of a website to connect local food safety-certified cooks with an online marketplace to connect with customers in the community and sell homemade dishes, along with optimizing the website's performance.

Deerwalk Groups Web **Dec 2017 - Aug 2021**
Developer Intern *Kathmandu, Nepal*
- Created CI/CD pipelines, reducing deployment times from hours to minutes with zero downtime.
- Supported development of scalable backend systems and data dashboards.

TECHNICAL SKILLS

- **Programming & Frameworks**: Java (Core, Spring Boot), Python, JavaScript/TypeScript, PHP, Node.js, Flutter
- **Frameworks & Libraries**: React.js, Next.js, NestJS, Flask, Django, FastAPI, Flask, Laravel
- **Cloud & DevOps**: AWS (EC2, RDS, S3, Glue, Lambda, Redshift, SES), GCP (Cloud Run, Vector AI, Storage Bucket), Docker, GitHub Actions (CI/CD), Vercel, Netlify
- **AI & ML**: Vertex AI (Gemini 2.5, OpenAI APIs), LangChain/LangGraph, RAG Pipelines, Vector Databases
- **Databases**: MySQL, PostgreSQL, MongoDB, Firebase, DynamoDB
- **Software Engineering**: REST & GraphQL APIs, Microservices, Agile/Scrum, Test Automation
- **Data & Analytics**: Spark, Hadoop, ETL Pipelines, Web Scraping (Selenium, BeautifulSoup), Tableau, PowerBI, KPI Dashboards

PROJECTS | LINK

LawgicBot – AI-Powered Legal Education Platform | LINK
- Built a full-stack platform with RAG-powered backend (FastAPI, LangChain) and Next.js frontend to provide legal education and automated PDF generation through an AI agent.
- Integrated conversational AI and real-time document creation, deployed on Google Cloud with zero data retention architecture.

Basketball Analytics – Tournament Prediction System | LINK
- Developed a prediction engine using 7 years of BartTorvik.com data (2,136+ team records) and ML models (Random Forest, Logistic Regression, SVM).
- Achieved 95.2% AUC for tournament qualification, 90.4% accuracy for upset detection, and 89.7% accuracy for deep-run predictions.

Big Data Health Risk Prediction | LINK
- Created a risk prediction system for heart attack likelihood using ML models (Random Forest, Logistic Regression, SVM) and deployed with FastAPI + Next.js + Vercel.

EDUCATION

University of North Texas, Denton, Texas, USA **Jan 2024 - Present**
Masters, Advanced Data Analytics *Denton, TX, USA*
- **GPA:** 4.0