

TAYOUTH MALLA

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Summary

Full Stack Software Engineer with 5+ years of experience building secure, scalable, and cloud-native applications across finance, healthcare, and education. Specialized in full-stack development using React, Next.js, Java, Spring Boot, and Python with deep expertise in CI/CD, cloud infrastructure (AWS/GCP), and AI-driven solutions. Proven success delivering high-impact projects and maintaining 100% client satisfaction as a Top-Rated Upwork engineer.

WORK EXPERIENCE

UNT North Texas NOW! & College of Applied & Collaborative Studies

Aug 2024 – Dec 2025

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

Canada (Remote)

- 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

Dec 2017 - Aug 2021

Web 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 – Dec 2025

Masters, Advanced Data Analytics

Denton, TX, USA

- **GPA:** 4.0