



# TAYOUTH MALLA

TX, USA | 940-623-9923 | [tayouthmall@gmail.com](mailto:tayouthmall@gmail.com) | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

## 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

<b>UNT North Texas NOW! &amp; College of Applied &amp; Collaborative Studies</b> <i>Graduate &amp; Teaching Assistant</i>	<b>Aug 2024 – Dec 2025</b> 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%.	
<b>Verity Advisors</b> <i>Data Engineering Intern</i>	<b>Feb 2025 - May 2025</b> 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.	
<b>Upwork</b> <i>Full Stack Software Engineer (Top-Rated)</i>	<b>Dec 2022 - Jan 2024</b> 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.	
<b>OIIKA Inc.</b> <i>Frontend Engineer</i>	<b>Oct 2021 - Mar 2022</b> 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.	
<b>Deerwalk Groups</b> <i>Web Developer Intern</i>	<b>Dec 2017 - Aug 2021</b> 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

Masters, Advanced Data Analytics

- GPA: 4.0

**Jan 2024 – Dec 2025**

Denton, TX, USA