

# TAYOUTH MALLA

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## EDUCATION

### University of North Texas, Denton, Texas, USA

*Masters, Advanced Data Analytics (GPA: 4.0)*

**Jan 2024 - Present**

*Denton, TX, USA*

### Deerwalk Institute of Technology, Siphel, Kathmandu, Nepal

*Bachelor's, Computer Science and Information Technology (GPA: 72.29%)*

**Sep 2017 - Aug 2021**

*Kathmandu, Nepal*

## SKILLS

- **Programming Language:** Python, Java, JavaScript, Reactjs, C/C++, PHP, Tailwind, SQL (MySQL, Postgres)
- **Framework and Tools:** React Native, Next.js, Laravel, Intertia.js, Flutter, Firebase, Node.js, Nest.js, Tableau, Power BI, Pandas, Numpy, Scikit-Learn, Matplotlib
- **Cloud/DevOps:** Docker, Git, CI/CD, Vercel, AWS Services, Google Cloud Platform

## WORK EXPERIENCE

### North Texas Now | *Graduate Assistant*

**Jan 2025 - Present**

- Support dual credit initiatives by analyzing over 150 student program data and applying research insights to improve student outcomes.

### College of Applied & Collaborative Studies | *Teaching Assistant*

**Aug 2024 - Present**

- Facilitated BAAS curriculum delivery and student learning for over 100 students by providing academic support and guidance in data analysis, civic engagement using Pandas and Node.js, which increased their participation in courses by 15%

### Verity Advisors | *Data Engineering Intern*

**Feb 2025 - May 2025**

- Built and managed data pipelines for ETL processes, cloud infrastructure, and scalable applications using AWS services (S3, Redshift, Glue, Lambda), enhancing data processing efficiency. Developed web scraping workflows for real-time stock data processing using Selenium and BeautifulSoup, with automated reporting and email notifications powered by AWS Glue Workflows, Lambda, and SES.

### Upwork | *Full Stack Software Engineer*

**Dec 2022 - Jan 2024**

- Developed applications using Next.js, React.js, FastAPI, Django, Laravel, Python, and Nest.js, creating cloud-based solutions tailored to client needs with AWS, Firebase, GCP, and Vercel, which led to achieving Top-Rated Rising Star status with a 100% Job Success Score within two months

### OLIKA Inc. | *Frontend Engineer*

**Oct 2022 - Mar 2022**

- 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 | *Developer Intern*

**Dec 2019 - Aug 2021**

- Created CI/CD pipelines leading to a reduction of deployment times from hours to minutes; streamlined processes enabled faster updates with zero downtime during critical operational periods.

## LEADERSHIP

### Edu Tech Nepal | *Teaching Fellowship*

**Oct 2021 - Mar 2022**

- Conducted hands-on workshops for local teachers and students demonstrating effective use of software tools, achieving an increase in classroom technology integration across six different subjects through peer-to-peer support initiatives.

### DWIT News and Media Team | *Vice President*

**Mar 2018 - May 2019**

- Facilitated bi-monthly meetings with 10+ members to discuss event planning techniques, resulting in actionable insights that increased overall event engagement by 20% and enhanced the effectiveness of future organizational initiatives.

## PROJECTS

### Notify Deerwalker

- Built Notify Deerwalker using Flutter, Firebase, and Beautiful Soup, enabling real-time alerts and reducing missed student notifications by 40%.

### Fitness App

- Prepared a full-featured health tracking app on the Flutter platform utilizing Firebase backend services; enabled personalized insights into fitness routines by integrating over 10000 data points from active user engagements.

### Offline Answer Sheet Submission Mobile App

- Produced and implemented an innovative educational tool using React, Web3j, Flutter, and Firebase technologies; streamlined assignment management for educators leading to a notable increase in student engagement by tracking usage patterns which resulted 30% increase in student awareness along-side with their engagement.