

# Aditya Shahi

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## EDUCATION

### University of Alberta

*Bachelors in Computing Science, Minor in Bioinformatics*

Edmonton, AB

*Sept. 2021 – Dec 2025*

**Relevant Coursework:** Data Analytics, Machine Learning, Data Structures and Algorithms, Database Management, Statistical Methods, Software Development, Web Development.

## EXPERIENCE

### Software Developer Intern

Jan 2023 – Apr 2023

*Maangler*

*Remote*

- Designed interactive course modules using **React** and **Material-UI**, improving user engagement for an AI-driven learning platform.
- Integrated **machine learning model** with **TensorFlow** and **scikit-learn** into the backend, optimizing learning paths with **Python** and **PostgreSQL**.
- Built **API endpoints** to track user progress and assessment results, ensuring **scalable** and **secure data management**.
- Automated workflows using **Docker** and **AWS Elastic Beanstalk**, maintaining 87.4% platform uptime and seamless updates.

### Data Analyst Intern

May 2022 – Aug 2022

*Doon International*

*India*

- Analyzed **5,000+ student records** and regional school metrics using **Python** and **SQL**, uncovering trends to improve educational strategies.
- Created **20+ dashboards** in **Tableau** and **Python**, enabling data-driven decision-making for administrators.
- Collaborated with **Agile teams** to prioritize tasks, present insights during sprint reviews, and align with educational goals.
- Streamlined reporting workflows, reducing manual effort by **40%** and improving data processes.

## PROJECTS

### SocialDistribution - Decentralized Social Media Platform | *React, Django, PostgreSQL, Heroku*

- Led the development of a **decentralized social media platform** enabling interoperability across multiple platforms.
- Designed **REST APIs** and managed backend scalability with **Django** and **PostgreSQL**.
- Deployed the platform on **Heroku**, ensuring efficient data handling and seamless integration.

### DebtDefender - Loan Repayment Prediction Model | *Python, TensorFlow, PostgreSQL*

- Developed a **96%-accurate AI model** for loan default predictions using **TensorFlow**.
- Optimized **PostgreSQL queries**, increasing data processing speed by **40%**.
- Automated model training pipelines for seamless integration into decision-making systems.

### SayIt - Language Detection and Translation App | *React Native, Node.js, Firebase, Vercel*

- Developed an cross-platform app for advanced **language detection** using Realtime API(OpenAI) and real-time translation done using **Google Cloud Translation API**.
- Built offline detection capabilities, enhancing usability without user input for source language identification.
- Working on **Vercel** for deployment, ensuring **high-quality performance** and ease of updates.

## SKILLS

<b>Technical Skills:</b>	Python, SQL, JavaScript, C++
<b>Frameworks &amp; Tools:</b>	NextJS, Tailwind, Node.js, TensorFlow, OpenCV, AWS
<b>API &amp; Development:</b>	RESTful APIs, Git, Postman, ChatGPT
<b>Soft Skills:</b>	Analytical Thinking, Teamwork, Time Management
<b>Practices &amp; Methodologies:</b>	CI/CD Pipelines, Object-Oriented Programming, Test-Driven Development