

# Divya Prasad

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## EDUCATION

### University of Alberta

Expected Graduation: May 2026

*Bachelor of Science in Computer Science (Co-op)*

*Edmonton, Canada*

*Co-op Availability: 4 months beginning May 2025*

- **Schulich Leader Scholarship (\$80,000 CAD):** Awarded to 100 recipients out of 300,000+ candidates
- **Relevant Courses:** Data Structures and Algorithms, Software Engineering, Relational Databases

## TECHNICAL EXPERIENCE

### Software Developer Intern (Full-Stack)

January 2024 – August 2024

*Canadian Natural Resources Limited*

*Calgary, Canada*

- Created an internal case management system by transitioning from legacy applications to a service-oriented architecture using **C# and .NET 8**, increasing processing speed by **40%** and decreasing costs by **60%**.
- Implemented and maintained **RESTful APIs** that supported seamless data exchange between the server and client side application, contributing to a **20%** increase in application performance.
- Optimized database queries, reducing data retrieval time by **45%** using **Entity Framework** with **Oracle**.
- Spearheaded UI design features to improve usability for end-users by adding data grids and other intuitive UI components with **Blazor, C#, LINQ**, and **Syncfusion Component Library**.

### Computer Science Research Intern

July 2021 – August 2021

*University of Alberta*

*Edmonton, Canada*

- Developed a website interface to store and test machine learning-based predictive text models for Plains Cree users by utilizing **HTML, CSS**, and **JavaScript**.
- Published a research presentation outlining the procedures and methods used for the project to the University of Alberta's Educational and Research Archive.

## TECHNICAL PROJECTS

### edYOU

September 2024

*HackMIT*

*Boston, USA*

- Developed a full-stack application that generated tailored learning resources using **Langchain** and **LLMs**.
- Designed and implemented the back-end infrastructure using **Convex**, optimizing server performance, ensuring efficient data handling, and reducing development time by **25%**.
- Overcame frontend-backend integration challenges, ensuring seamless real-time communication between the **React** frontend and **FastAPI/Node.js** backend, resulting in a **30%** improvement in response time.

### MyBuddy

July 2024

*Arcurve Health Hack*

*Calgary, Canada*

- Designed a web app for children in rehabilitation to build communication skills about their health.
- Integrated **OpenAI GPT-4o** and **Dall-E 3 models** to create a chat support to tailor emotional support.
- Implemented **React** components and routing to create the front-end functionality from **Figma** designs.

### Remindify

November 2023

*HackED Beta*

*Edmonton, Canada*

- Developed a full-stack app that send timely notifications for custom made tasks to users' mobile devices.
- Worked on the back end infrastructure using **Flask** and **SQLite** to manage the database operations and user-authentication.
- Implemented a SMS based notification system using **Twilio SMS API**.
- Won **first place** in a sponsored category out of 15+ total teams in the event.

## TECHNICAL SKILLS

**Languages:** Python, C#, C, C++, Java, JavaScript, TypeScript, SQL (PostgreSQL, Oracle), MongoDB, HTML, CSS

**Frameworks and Libraries:** Blazor, React.js, React Hooks Node.js, Express.js, Next.js Entity Framework, .NET 8, Flask, Django, Bootstrap, Tailwind, Syncfusion, NUnit

**Developer Tools:** Git, Azure DevOps, Google Cloud Platform (GCP), Figma, Unix, VSCode, Visual Studio