

DIEPREYE CHARLES-DANIEL

Edmonton, Alberta

📞 587-594-6476 ✉ diepreye@ualberta.ca [in diepreyecd](https://www.linkedin.com/company/diepreyecd) [davephoenix360](https://github.com/davephoenix360)



Engineering
Co-op Program

Technical Skills

Languages: C, C++, C#, .NET, Python, HTML, CSS, JavaScript, Typescript, VHDL, Bash Scripting, 3ds Max MaxScript

Developer Tools: Autodesk, AWS, Clerk, OpenRouter, Groq, Visual Studio and VS Code, Google Cloud Platform

Technologies/Frameworks: React, Flask, Nextjs, Bootstrap, Material UI, GitHub, Virtual Machines

Education

Bachelor of Science in Computer Software Engineering

Sep. 2022 – May 2027

University of Alberta GPA 3.6 out of 4.0

Experience

Software Engineering Fellow

July 2024 – August 2024

[*Headstarter AI*](#)

Hybrid

- Selected as a fellow to participate in a global program, implementing **LLMOps best practices**, collaboratively building 5+ AI applications and APIs using a wide range of technologies, including **NextJS**, **OpenAI**, **Groq**, Langchain, Pinecone, and Stripe API
- Coached by engineers from Amazon, Bloomberg, and Capital One on Agile, CI/CD, **Git**, and microservice patterns, resulting in improved software development practices and reduced deployment times

Software Developer Intern

May 2024 – August 2024

[*University of Alberta*](#)

Edmonton, Canada

- Built a 3D construction project planning software using C#, 3ds Max, and Maxscript, providing actionable insights on project phases and improving project visualization for stakeholders
- Developed and implemented an efficient crane path-planning algorithm, expediting the design and procurement phases of construction projects, resulting in a 15% reduction in planning time

Front End Developer Intern

August 2022 – December 2022

[*Harveyteck Web Resources*](#)

Port Harcourt, Nigeria

- Developed 7 fully responsive websites with HTML, CSS, Bootstrap, and Node.js learning directly under one of Harveyteck's senior full-stack developers
- Incorporated Netlify for web hosting and data handling over 12 weeks, Git and GitHub for version control, and to visualize collaboration with my mentor and team lead

I.T. Management Intern

August 2022 – December 2022

[*Ogeyi Place Hotel and Resorts*](#)

Port Harcourt, Nigeria

- Diagnosed and resolved IT issues for 100+ clients in Win10 environment, achieving 85 percent success rate and reduced downtime by 20 percent, boosting productivity
- Assessed and troubleshoot server problems caused by malware attacks, email spoofing, and phishing, reducing the number of incidents by over 50 percent.
- Assisted IT staff with various tasks, maintaining a 100 percent success rate, managed PMS database, processed paperwork using Microsoft Word and Excel, and handled client inquiries

Projects

[**LookMate**](#) | *React, Nextjs, Typescript, OpenAI API, AWS, Vercel*

Aug. 2024

- Developed a personalized AI-powered style assistant using React, **Next.js**, and **TypeScript**, integrated with **OpenAI API** and **AWS Lambda** for outfit suggestions
- Deployed on **AWS** and Vercel, providing a seamless user experience with weather-aware recommendations and a community for sharing trends

[**MemorixAI**](#) | *React, Nextjs, Typescript, Langchain and Groq API, Firebase, Vercel*

Aug. 2024

- Developed an AI powered flashcard web app using Llama 3 from Groq as the base model in a team of four where I acted as an AI Engineer handling the REST API
- Handled the multi-modal input feature and the backend structure of the app using Langchain APIs and using RAG Framework

Keepr App | *React, Nextjs, Typescript, OpenAI API, Firebase, Vercel*

Aug. 2024

- Developed a smart pantry management app utilizing Firebase as cloud storage
- Added a recipe generation feature powered by OpenAI model to give unique recipes with the user's current pantry stock

Guide Bot | *Python, C++, Google Maps API, OpenRoutes API, Arduino*

January 2024

- Led a 4-member team in the development of an Arduino UNO-powered robot using Python and C++ aimed at assisting visually impaired individuals in navigating both indoor and outdoor environments
- Engineered the outdoor navigation functionality of the guide bot utilizing Google Maps and OpenRouteService APIs, ensuring precise movement between saved locations across Canada

UAlberta Student Assistant | *Python, HTML, CSS, Nodejs, React, Django, SQLite, Flask*

Nov. 2023

- Spearheaded a 4-member team initiative to develop a comprehensive web application using HTML, CSS, Python, Nodejs, React, and SQL, aimed at providing essential academic assistance to fellow university students
- Engineered dynamic resources feature leveraging the Google Books API and Python-based web scraping techniques with Flask, Selenium, and BeautifulSoup to compile an extensive database of relevant books, courses, course-related events and YouTube videos tailored to student coursework

Scholarships and Awards

- First Class Standing 2022/2023 and 2023/2024 Sessions
- Awarded The President's International Distinction Scholarship 2022 and 2023