

# Khyl Nad

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## EDUCATION & CERTIFICATES

### University of Alberta

BSc in Computer Science with a minor in Mathematics

Relevant Coursework: Web Applications and Architecture, Computational Cryptography

Edmonton, AB

Graduated: Jun 2025

**AWS Cloud Technical Essentials** | AWS

Sep 2025

**Full-Stack Developer Specialization** | Microsoft

Aug 2025

**Security and Authentication** | Microsoft

Aug 2025

## EXPERIENCE

### University of Alberta

#### Full Stack Developer Research Assistant

Aug 2025 – Current

- Used React, TypeScript, Next.js, Django, and Python to build and maintain a full-stack web application that engineers use to analyze industrial pipeline data
- Deployed AWS infrastructure with a frontend on AWS Amplify and a backend on EC2, Elastic Beanstalk, and ECS (Fargate), using S3, RDS, and SQS for scalable and asynchronous workloads
- Leveraged Redis for caching and task queuing and Celery for asynchronous background processing, reducing server-side bottlenecks
- Implemented secure authentication using JWT and cookies to manage user sessions, resulting in secure access across distributed services

### MecSimCalc

#### Chief Product Officer

Sep 2023 – Current

- Leveraged React, TypeScript, and Django to build and scale an education platform, allowing users to create and run interactive Python-based web applications
- Implemented and refactored REST APIs using Python and Django to improve data transfer efficiency and request execution performance
- Used Python and LangChain to integrate popular LLMs such as ChatGPT and Claude to develop an AI-powered chatbot that simplified the creation process of Python applications
- Collaborated with engineering, design, and business stakeholders to align technical development with user needs and company goals

### MecSimCalc

#### UI/UX Developer

Apr 2023 - Aug 2023

- Implemented frontend refactors and redesigns with React and TypeScript, improving application speed and usability
- Implemented asynchronous client-side request handling using React, TypeScript, and JavaScript, resulting in non-blocking UI updates and a more responsive interface
- Used Python to automate subscriber and billing workflows to centralize customer data and improve visibility into product usage
- Delivered production-grade code using Agile development practices, resulting in consistent code quality through frequent software sprints

## TECHNICAL SKILLS

**Programming Languages:** Python, JavaScript, TypeScript, C, C++, C#, SQL, NoSQL

**Frameworks & APIs:** React, Next.js, Django, Flask, ASP.NET Core, LangChain, REST APIs, GraphQL

**Cloud & Backend Technologies:** AWS (EC2, Amplify, Elastic Beanstalk, ECS/Fargate, SQS, S3, RDS), Redis, Celery

**Databases & Tools:** PostgreSQL, MySQL, Microsoft SQL Server, Docker, Git, GitHub, Firebase