

Khym Nad

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Education

University of Alberta

Bachelor of Science in Computing Science, Minor in Mathematics

Sep. 2021 – Present

Edmonton, AB

Work Experience

AI Application Developer & Project Lead | *Skillement.ai*

Aug 2025 – Present

- Engineer a multi-tenant SaaS platform with **Next.js**, **TypeScript**, **Prisma**, and **Supabase**, enforcing role-based access control and audit logging to ensure secure, scalable deployments.
- Implement core platform services such as **Client Authentication**, **Stripe billing**, and **Resend email workflows**, simplifying user onboarding, subscription management, and invitations.
- Design and optimize **Postgres schemas** with Prisma to support assessments, scoring, and multi-tenant data management, strengthening both backend performance and scalability.
- Lead the **design and implementation** of the **Quizzing Engine** powering the **AIQ (AI Quotient)** and **AICK (AI Capability Kit)**, enabling adaptive assessments and personalized organizational readiness pathways.

Projects

AI-Powered Resume Matcher | *ASP.NET Core, Web API, C#, Python, JavaScript, React, Vite*

- Utilize **PDFPlumber**, **HuggingFace Transformers**, and **Adzuna API** to build an AI-powered resume matcher that uses **Natural Language Processing (NLP)** to extract skills and recommend real-time job listings.
- Develop a scalable backend using **ASP.NET Core Web API** and **Python**, integrating NLP pipelines and external APIs for intelligent resume-job alignment.
- Design a responsive frontend with **React**, **Vite**, and **Framer Motion**, enhancing interactivity and deploy on **Vercel** and **Render** to streamline CI/CD workflows.
- GitHub: Frontend — Backend Live Demo: resume-matcher-client.vercel.app

Neuroscience Hackathon App | *React Native, Python, JavaScript, NumPy, Pandas, SciPy*

- Awarded **2nd Place in the Research Division** at **natHACKS 2024** for developing an innovative neuroscience application utilizing **real-time EEG analysis**.
- Build a **Python EEG analysis pipeline** that applies bandpass filtering (8–13 Hz) to isolate alpha waves and uses the **Hilbert transform** to extract instantaneous phases.
- Compute **Phase Lag Index (PLI)** across EEG channels (AF7, AF8) to measure neural synchrony, forming the scientific basis for compatibility scoring.
- Integrate live **data visualization** of brainwave patterns and compatibility scores using **React Native**.
- GitHub: github.com/natHACKS-2024-idk Devpost: devpost.com/software/neuromance-pbg8iw

Decentralized Social Network | *Python, Django, JavaScript, HTML, CSS, Heroku*

- Leverage **Python**, **Django**, and **Django REST Framework** to build a decentralized social networking platform with cross-node user interactions.
- Design and integrate custom **RESTful APIs** and a **PostgreSQL** backend to enable scalable data storage and communication.
- Develop and deploy a responsive UI with **HTML**, **CSS**, and **JavaScript** on **Heroku**, ensuring broad accessibility across devices.
- GitHub: github.com/KhymNad/decentralized_social_network

Technical Skills

Languages: Python, JavaScript, Java, C#, SQL, HTML5, CSS3, R

Frameworks: React, ASP.NET Core, .NET Core, Django, Node.js, Android XML

Tools & Platforms: Git, GitHub, PostgreSQL, MySQL, Vercel, Render, Heroku, Firebase, Visual Studio, VS Code

Concepts: REST APIs, MVC, CRUD, OOP, Full-Stack Architecture

Certifications

.NET Full Stack Developer — Board Infinity

Jun 2025

- *C#, ASP.NET MVC, RESTful API, SQL, Node.js, React*
- Certificate: coursera.org/.../DJ77BY6JRS5E ID: DJ77BY6JRS5E

Backend Development for .NET Full Stack — Board Infinity

May 2025

- *C#, ASP.NET MVC, RESTful API, SQL*
- Certificate: coursera.org/.../V3LNKWU738W1 ID: V3LNKWU738W1

Frontend Development using React — Board Infinity

Jun 2025

- *JavaScript, CSS, HTML, Node.js, React*
- Certificate: coursera.org/.../27XS9JUYDS3A ID: 27XS9JUYDS3A

Back-End Development with .NET — Microsoft

Jul 2025

- *C#, ASP.NET, RESTful API, JSON, Routing Protocols, .NET Framework*
- Certificate: coursera.org/.../V2W23Y861O10 ID: V2W23Y861O10

Database Integration and Management — Microsoft

Jul 2025

- *SQL, Object-Relational Mapping, Data Modeling, Performance Tuning, Data Security*
- Certificate: coursera.org/.../ONMXDDKHJSY3 ID: ONMXDDKHJSY3

Blazor for Front-End Development — Microsoft

Jun 2025

- *UI/UX Design, Blazor, C#, State Management*
- Certificate: coursera.org/.../BE7R8PA5VG74 ID: BE7R8PA5VG74

Volunteer Experience

Vice Head Mentor, U of A Taekwondo Club — Edmonton, AB

Mar 2024 – Apr 2025

- Manage logistics for local and regional competitions, ensuring smooth execution and adherence to schedules.
- Coordinate member mentorship and practice strategies to improve performance.
- Lead preparation efforts for local and regional tournaments.

Teaching Assistant, TeamUP Science Interdisciplinary Competition — Edmonton, AB

Feb 2023

- Facilitate Python lab sessions for high school students, guiding them through algorithm design and problem-solving techniques.
- Mentor students on debugging, code optimization, and best programming practices to enhance learning outcomes.
- Assist in designing and evaluating mini-projects, providing constructive feedback and fostering critical thinking skills.