

# Khym Nad

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## Education

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University of Alberta

Bachelor of Science in Computing Science, Minor in Mathematics

Sep. 2021 – Present

Edmonton, AB

## Work Experience

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Full-Stack Developer Co-Op | Meritrium

Aug. 2025 – Present

- Implement role-based access control in a multi-tenant SaaS platform using **Next.js**, **TypeScript**, **Prisma**, and **Supabase**, designing user roles, permissions, and policies to ensure each tenant's data and features are properly isolated and secured.
- Developed the **Quizzing Engine** for **AIQ** and **AICK** tests, creating assessments with questions randomized across 7 sets and enforcing testing restrictions like cursor actions and window activity using **TypeScript**, **React**, and **Next.js**.
- Built member and sponsor dashboards with **React**, **TypeScript**, and **Next.js**. Member dashboards show **AIQ** and **AICK** results; sponsor dashboards manage uploads, assessments, reminders, and deadlines. Used **Resend** for email notifications.
- Optimize **Postgres** schemas with Prisma to support assessments, scoring, and multi-tenant data isolation, restructuring tables, defining relationships, and adding indexes to improve query efficiency, backend performance, and data integrity.

## Projects

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

- Implemented **PDFPlumber** to extract resume content, applied **HuggingFace Transformers** to identify and classify key skills, and integrate with **Adzuna API** to recommend relevant job listings, streamlining the resume evaluation process.
- Built a scalable backend using **ASP.NET Core Web API**, utilizing controllers and dependency injection to implement an NLP pipeline with **C#** and **Python** to extract and classify resume elements such as education, experience, and location.
- Designed a responsive frontend using **React**, **Vite**, and **Framer Motion**, enabling users to view and interact with personalized job recommendations. Deployed on **Vercel** to ensure reliable updates and maintain smooth 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 a neuroscience application that uses **Python** to process real-time EEG data from users and compute compatibility scores through a custom analysis pipeline.
- Apply bandpass filtering (8–13 Hz) to isolate alpha waves, extract instantaneous phases with the **Hilbert transform**, and compute **Phase Lag Index (PLI)** across EEG channels using **SciPy** to measure neural synchrony for compatibility scoring.
- Clean, preprocess, and structure raw EEG data using **Python**, **NumPy**, and **Pandas**, including artifact removal, filtering out noise, handling missing values, and organizing channel data to ensure accurate and reliable input for subsequent analysis.
- GitHub: github.com/natHACKS-2024-idk    Devpost: devpost.com/software/neuromance-pbg8iw

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

- Build a decentralized social networking platform using **Python**, **Django**, and **Django REST Framework**, enabling cross-node user interactions, synchronized data exchange, and consistent access to posts and profiles across servers.
- Design and implement custom **RESTful APIs** with a **PostgreSQL** backend, defining clear data models and endpoints. Use **Django REST Framework** to serialize and validate JSON requests and responses, ensuring consistent data exchange.
- Developed a responsive UI using **HTML**, **CSS**, and **JavaScript** deployed on **Heroku**, implementing interactive components, responsive layouts, and dynamic content updates ensuring consistent rendering and usability across devices.
- GitHub: github.com/KhymNad/decentralized\_social\_network

Technical Skills

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- **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

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Full-Stack Developer | Microsoft Sep 2025

- Certificate: [coursera.org/.../fd6b9578b817c141374a8a36624ef998](https://coursera.org/.../fd6b9578b817c141374a8a36624ef998)
- Tags: Git, CI/CD, Full-Stack Web Development, SQL, ASP.NET, C#, Object-Oriented Programming (OOP)

Security and Authentication | Microsoft Sep 2025

- Certificate: [coursera.org/.../61d0a68a063c7744a753d2a65cf2c6a1](https://coursera.org/.../61d0a68a063c7744a753d2a65cf2c6a1)
- Tags: Identity and Access Management, JSON, ASP.NET, .NET Framework, Encryption

Database Integration and Management | Microsoft July 2025

- Certificate: [coursera.org/.../7c7d0751f5958911a0c27c3db9dfcab](https://coursera.org/.../7c7d0751f5958911a0c27c3db9dfcab)
- Tags: Data Modeling, Object-Relational Mapping, Relational Databases, SQL

.NET Full-Stack Developer | Board Infinity May 2025

- Certificate: [coursera.org/.../bcf680279e67edddca867b9ba67114c2](https://coursera.org/.../bcf680279e67edddca867b9ba67114c2)
- Tags: JavaScript, React.js, Node.js, HTML, CSS, RESTful APIs, SQL

Leadership Experience

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Vice Head Mentor | U of A Taekwondo Club Mar. 2024 – Apr. 2025

- Coordinate logistics for local and regional competitions, ensuring smooth execution and reliable event operations.
- Guide member mentorship and develop practice strategies and curriculum to enhance skill growth and overall performance.
- Adjust training plans and coordinate with coaches to effectively respond to the evolving needs of club members and events.

Teaching Assistant | TeamUP Science Interdisciplinary Competition Feb. 2023

- Facilitate Python lab 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.