SIDDHARTH KURNAL

📍 Edmonton, Alberta, Canada

Phone: 780.860.1246
Email: siddharthkurnal@gmail.com
LinkedIn: linkedin.com/in/siddharth-kurnal
GitHub: github.com/skurnal2
Portfolio ⭐: www.siddharthkurnal.com

Experienced software developer with under **5 years** of expertise, creating high-quality, visually stunning, and user-friendly web experiences focused on performance and accessibility.

Professional Work Experience

December 2020 - Present *(4 Years)*
BIS Safety Software
Sherwood Park, Alberta

Senior Full Stack Developer *June 2023 - Present*
- Built an AI Chatbot Agent using **Pinecone** through Retrieval-Augmented Generation (**RAG**), reducing support inquiries by **50%** and enabling faster resolution times.
- Managed a team of developers for major AI-related projects, streamlining development workflows to achieve a **40%** reduction in development time.
- Designed and deployed a Node.js WebSocket server on **AWS EC2**, enabling user session tracking, reducing database load by **30%**, and improving system stability by **eliminating long polling**.
- Developed an AI-powered form generation tool using OpenAI API, cutting form creation time by **40%** and significantly boosting productivity

Full Stack Developer *December 2020 - June 2023*
- Created an optimized settings page with React-Redux and Redis caching, reducing page load times by **100%** and improving support.
- Developed a recursive location tree management system with drag-and-drop functionality, increasing nested data handling efficiency.
- Spearheaded development of a reusable component library hosted on NPM, reducing UI development time by **50%** and ensuring design consistency.
- Implemented RESTful APIs and automated FTP imports, eliminating all manual data transfer tasks for clients.
- Ensured compliance with **SOC2**, **PIPA**, and **PIPEDA**, maintaining security and privacy for an application serving over **2 million users**.

July 2020 - October 2020
Aimsio
Calgary, Alberta (Remote)

Implementation Developer Intern
- Created custom forms for web and mobile applications using Aimsio framework and MySQL.
- Improved report generation efficiency by **30%** using SCSS and JavaScript.
- Engaged with clients to understand and implement tailored solutions.

January 2020 - April 2020
NAIT Capstone
Project Lead / Web Developer

May 2018 - April 2020
Northern Alberta Institute of Technology (NAIT)
Edmonton, Alberta

🎓 *Digital Media and IT (Computer Software Development) ~ **4.0 GPA***

- Web Design/Development
- Application Development
- Mobile Development
- Database
- System Analysis
- Networking
- Software Testing
- Project Management

Languages & Frameworks
- JavaScript
- TypeScript
- C# / .Net / LINQ
- PHP
- Java
- Adobe ColdFusion

Frontend
- React / Redux
- AngularJs
- NextJs
- SASS / Tailwind

Backend
- Node.js Runtime
- Entity Framework

Databases
- MySQL / MariaDB
- Microsoft SQL Server (T-SQL)
- Redis
- Pinecone (Vector)
- DynamoDB

DevOps & Tools
- AWS (ELB, S3, RDS)
- Git
- VS Code / Cursor
- Visual Studio
- Docker
- GitHub Actions
- JIRA / Trello

Mobile
- Swift - XCode
- Android Studio

Chatbot Agent and Knowledge Base using RAG
- Used **Pinecone** to store and retrieve embeddings efficiently, enhancing chatbot query accuracy.
- Implemented Retrieval-Augmented Generation for seamless integration of external knowledge into context-aware responses.
- Utilized event streaming for real-time markdown rendering in chatbot responses.
- Managed a Python server on **AWS EC2** for scalability and reliability. Used **AWS S3** for Knowledge Base uploads.
- Developed a modern chatbot interface with React, **Context API,** and efficient state management using local storage and session

User Session Tracking using Websockets and Redis
- Built a **Node.js WebSocket** server on an **AWS EC2** instance to manage user login states and track page statistics.
- Implemented session management by integrating Redis, enabling efficient tracking and storage of user sessions.

React Component Library using Storybook.js
- Developed a React component library on **NPM**, ensuring consistency and reducing development time.
- Eliminated duplicate components, streamlined usage, and kept the library updated.
- Integrated **Storybook.js** for interactive documentation, improving onboarding and collaboration for **70 developers**.

HighwayDodge - Cross-Platform Game using Java
- Developed a mobile game for **Android** and **iOS** using the **LibGDX** framework with **Android Studio** and **Java**.
- Managed game play states across screens and utilized the device gyroscope for motion and acceleration tracking.

LA Auto Detail - Service & Vehicle Management System
- NAIT Capstone - Led a team of 5 developers in the development of an SEO-optimized public website and a backend application for managing vehicles and services.
- Used C#, ASP.NET, Entity Framework with **LINQ** and T-SQL for backend, and SASS / **Bootstrap** for frontend styling.

Many More Projects