Aishan Irfan

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Education

University of Calgary — Calgary, AB
Bachelor of Computer Science (GPA: 3.7) — Expected: May 2026
Relevant Coursework: Data Structures and Algorithms, Object Oriented Programming, Web Development, Database Management Systems, Software Design, Operating Systems, Computer Networks

Technical Skills

Languages: JavaScript, TypeScript, Python, Java, Go, SQL, C, C++, HTML, CSS, Bash
Frameworks: Next.js, Tailwind CSS, React, Node.js, Bootstrap, JUnit
Tools: Git, Unix, Docker, PostgreSQL, MongoDB, Drizzle, Prisma, Redis, Figma

Experience

National Institute of Technology — Srinagar, JK
Software Engineer Intern — May 2024 – August 2024

- Developed a headless CMS and metrics dashboard for the online campus bookstore, utilized by over **1,000** students, using **NextJs** and **TypeScript**, enhancing content management efficiency by **30%**
- Implemented efficient backend services with **Prisma** and **PostgreSQL** alongside Next Serverless, optimizing data retrieval processes and reducing server response times
- Incorporated secure authentication with **NextAuth**, enhancing data security
- Enhanced user experience with a responsive, user-friendly interface designed with **Figma** & **Tailwind CSS**

Staples — Calgary, AB
Technical Associate — April 2022 – June 2022

- Provided informed recommendations and promptly resolved software issues, showcasing expertise in troubleshooting and optimizing software performance
- Assisted in training new team members, ensuring a smooth onboarding process and fostering a collaborative team environment

Projects

Lingo | *NextJs, React, Drizzle, PostgreSQL, Stripe, Tailwind*

- Launched a language learning **SaaS** platform using **NextJs**, incorporating **AI voices** for speech synthesis
- Employed **Clerk** for secure authentication and added sound effects for interactive feedback
- Used **Drizzle ORM** with **PostgreSQL**, for optimized data management, improving storage and retrieval
- Enhanced user engagement with a hearts system, Pro tier subscription via **Stripe**, and mobile-friendly design

casesAndCovers | *NextJs, TypeScript, Prisma, Shadcn, Stripe, Tailwind,*

- Deployed an E-Commerce store using **NextJs**, with a custom mobile case configurator, drag-and-drop uploads, and **Kinde** for authentication
- Integrated **Stripe** for secure payment processing and utilized server-side rendering **(SSR)** to improve SEO and ensure better search engine visibility
- Created a hidden admin dashboard for managing orders, used **Resend** for generating thank-you emails, resulting in efficient order processing

aiAlly | *LangChain, React, Supabase, JavaScript, PostgreSQL, OpenAI*

- Engineered a context-aware AI chatbot using **Langchain** and **React** for dynamic Q and A
- Leveraged **OpenAI** embeddings and **Supabase** vector storage for efficient data retrieval, ensuring precise answers from extensive datasets
- Built a conversation memory system with OpenAI models for coherent interactions and responses

Rebuildis | *Go, Telnet, TCP, Raft,*

- Built a key-value, in-memory database system like Redis in **Go** for efficient data management
- Introduced disaster recovery using Write-Ahead Logging (WAL), planning synchronous and asynchronous replication
- Designed a **TCP** server with replication and leader election using the Raft algorithm for high availability and fault tolerance