Aishan Irfan

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Education

University of Calgary — Calgary, AB
Bachelor of Science in Computer Science (GPA: 3.70) — Expected Graduation: December 2025
Relevant Coursework: Data Structures and Algorithms, Object Oriented Programming, Web Development, Database Management Systems, Software Design, Operating Systems, Computer Networks, Discrete Structures

Experience

National Institute of Technology — May 2024 – August 2024
Software Engineer Intern — Srinagar, J&K
- Developed a headless CMS and metrics dashboard for the online campus bookstore, utilized by over 1,000 students, using Next.js 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
- Implemented secure authentication with NextAuth and Clerk, enhancing data security
- Enhanced user experience with a responsive, user-friendly interface designed with Figma & Tailwind CSS

Staples — April 2022 – June 2022
Technical Associate — Calgary, AB
- 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 | *Next.js, React, Drizzle, PostgreSQL, Stripe, Tailwind*
- Developed and deployed a language learning SaaS platform using Next.js, integrating AI voices for speech synthesis
- Implemented Clerk for secure authentication and incorporated sound effects to provide interactive feedback
- Integrated PostgreSQL with Drizzle ORM for streamlined data management, improving retrieval and storage
- Enhanced user retention with a hearts system, Pro tier subscription via Stripe, and mobile responsiveness for a seamless user experience

aiAlly | *LangChain, React, Supabase, JavaScript, PostgreSQL, OpenAI*
- Built a context-aware reasoning ai chat bot with Langchain and React for dynamic question-answering
- Utilized OpenAI embeddings and Supabase vector storage for efficient data retrieval, ensuring accurate answers from large data sets
- Developed a conversation memory system using OpenAI models for coherent interactions and response generation

casesAndCovers | *Next.js, TypeScript, Shadcn, Stripe, Tailwind,*
- Built an E-Commerce store using Next.js, 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
- Implemented a secret admin dashboard for order management and generated thank-you emails after purchase, resulting in streamlined order processing

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

Technical Skills

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