

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

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 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
- Incorporated secure authentication with NextAuth, 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

casesAndCovers | *Next.js, TypeScript, Prisma, Shadcn, Stripe, Tailwind,*

- Deployed 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
- Created a hidden admin dashboard for managing orders and 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

Lingo | *Next.js, React, Drizzle, PostgreSQL, Stripe, Tailwind*

- Launched a language learning SaaS platform using Next.js, 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

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