Umar Khan

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EDUCATION

University of Calgary   **Calgary, Alberta**
B.S. in Software Engineering   *Expected Graduation, May 2027*

EXPERIENCE

Al Arabiya News Channel   **Dubai, United Arab Emirates**
Software Developer Intern   *June 2024 – July 2024*
- Developed and implemented scalable web and mobile applications using **Next.js**, **Swift**, **Kotlin**, **Tailwind CSS** and **MongoDb**.
- Collaborated with teams to design features, enhance projects, and maintain high code quality in production environments
- Utilized Git for version control and contributed to agile development processes to meet project milestones.
- Gained hands-on experience in coding, technology application, and continuous learning to improve project efficiency and drive innovation

PROJECTS

Texting Web & Mobile Application   **Calgary, Alberta**
Persona Project   *March 2025 – Ongoing*
- Developing a real-time web and mobile chat application for seamless communication.
- Building the frontend using **Next.js 15, React, ShadCN UI, and Tailwind CSS v4** to ensure a modern, responsive user interface.
- Implementing a scalable backend with **Node.js** and integrating **WebSockets** for instant messaging.
- Designing a secure authentication system and optimizing performance for a smooth user experience.

Ping Pong Game with AI opponent   **Calgary, Alberta**
Personal Project   *March 2025 – March 2025*
- Created a **browser-based ping pong game** with an AI-powered opponent using **JavaScript, HTML, and CSS**.
- Developed AI logic in **Node.js 20** to dynamically adjust difficulty based on the player's performance.
- Implemented smooth animations and physics-based ball movement for realistic gameplay.
- Designed an interactive UI and optimized game logic for fast, responsive performance.

E-commerce Application   **Calgary, Alberta**
Team Lead   *January 2024 – April 2024*
- Developed a **full-stack e-commerce platform** for online shopping with features like product browsing, checkout, and order tracking.
- Built the **frontend** using **React, HTML, and CSS** to deliver a responsive and engaging shopping experience.
- Designed the **backend** using **Python (Flask)** to handle user authentication, payment processing, and order management.
- Integrated a **REST API** to enable seamless communication between the frontend and backend

SKILLS

Programming: Java, **Python, JavaScript, TypeScript**, HTML, CSS, **SQL**, **C++, C**, UML, **Socket Programming (TCP/IP, UDP),** R
Technical: Computer & Software Architecture, **Object Oriented Design, Data Structures & Algorithms,** Unit Testing, **CI/CD Practices**
        DevOps Principles, Machine Learning, **Documentation**, UI/UX Design, **Data Science**, **REST APIs,**
        Bash Scripting, Python Scripting, Internet Protocols (IP, FTP, UDP, SMTP, HTTP, TCP, DNS), Shell Scripting
Frameworks/Libraries: React.js, **Node.js**, Next.js, **Tailwind CSS**, **Flask,** Angular, **Django**, Pandas, Scikit-learn, MongoDB, Prisma
Tools: Visual Studio Code, **Git**, Github, MySQL, **AWS**, **Azure**, Jira, SourceTree**, Docker**, **Kubernetes**, MySQL, Power BI, **MS Office**
Soft Skills: Strong written & verbal communication skills, Strong problem-solving skills, Team player, Strong organizational skills,
        Quick Learning

AWARDS

Google's Certification in Data Analytics	*March 2025*
Alexander Rutherford Scholarship	*August 2021*
2nd Place in Engineering Design	*April 2019*
Best Mechanical Design by SAIT	*Feb 2017*