

Toshif Khan

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SUMMARY

Computer Science Senior with internship experience in full-stack development, object-oriented programming, and microservices deployed in the cloud, seeking internship opportunities in summer 2027.

EDUCATION

Bachelor of Science in Computer Science
Minot State University, Minot, North Dakota

Expected May 2027

TECHNICAL SKILLS

Programming Languages: JavaScript, Python, C/C++, C#, SQL

Technologies: Next.js, Supabase, PostgreSQL, Git, TCP/IP, Win32/Windows API

Concepts: Data Structures & Algorithm 1 and 2, OOP, Multithreading, Concurrency, Networking, Client-Server Architecture, Producer Consumer, Thread Pools, Database Design, Testing & Debugging

AI Tools: Gemini: research and technical exploration, ChatGPT: debugging, SQL assistance, Claude: code review, refactoring and codebase analysis

PROFESSIONAL EXPERIENCE

Border States - IT Operations Intern, Fargo, ND

May 2026

- Selected for Border States summer internship and completed company onboarding and technical orientation for an enterprise IT environment

Arizona State University, Tempe, AZ

March 2023 – Aug 2024

Research Assistant

- Supported research workflows through structured data collection, analysis, documentation, and synthesis of finding for university research initiatives.
- Collaborated in a research environment requiring accuracy, independent problem solving, and clear communication of results.

PROJECTS

Residence Life Duty Management System

Personal Project

Python, Next.js, Supabase, PostgreSQL

- Developing a full stack duty management platform to replace manual residence life logging, with authentication, hall specific permissions, role-based access, and centralized operational records.
- Designed relational schemas for halls, staff access, and permission roles, integrating Supabase authentication and database services with a Next.js application

Mac Voice Assistant & Desktop Automation

Python, AppleScript, APIs

- Built a Python automation assistant that controls macOS applications, searches file, sends messages, initiates call, and executes natural language desktop commands through AppleScript and external services.
- Integrated persistent state, application discovery, command routing, and API based workflows to automate repetitive desktop tasks across multiple applications.

Concurrent Client-Server Application

C#, TCP/IP

- Developed a networked application supporting up to 5 simultaneous clients through TCP communication, centralized state management, input validation, and concurrent client connections.
- Implemented client/server message handling and synchronized shared application state across multiple connected users.

Parallel Encryption System

C/C#, Multithreading

- Implemented producer consumer encryption using shared 256-byte tables, synchronization primitives, and a thread pool architecture for parallel work processing.
- Validated deterministic encryption/decryption output across 1 and 4 thread executions, thread pool implementation earned 95/100.

Quick Commerce Sentiment Analysis

Python, NLP / Data Analysis

- Analyzed 4,620 customer reviews across quick commerce platforms and built a sentiment-analysis workflow achieving approximately 89.8% classification accuracy.
- Compared consumer sentiment across Blinkit, JioMart, and Zepto to identify measurable differences in customer feedback and service perception.

LEADERSHIP

Minot State University - Residence Hall Director

March 2025 - Present

- Lead and coordinate a Resident Assistant team, manage competing priorities and time-sensitive incidents, and drive follow-through on operational responsibilities serving a university residence hall.