

# Sakib Khan

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## Education

**University at Buffalo**

**Major:** B.S. Computer Science, Cum Laude Honors

**Graduation Date:** May 2025

**Awards:** Dean's List (3x)

## Technical Skills

**Languages / Frameworks:** Python, Java, Spring Boot, C#, SQL, Flask, Node.js, Express.js, JavaScript, TypeScript, React.js, HTML, CSS, SwiftUI

**Tools & Platforms:** Git, GitHub Actions (CI/CD), Docker, Kubernetes (EKS/AKS), Bash, OpenAI API

**Databases & Data Tools:** PostgreSQL, MongoDB, Redis, NumPy, Pandas, Matplotlib, SHA256 (Hashing)

## Work Experience

- **Software Engineer Intern**, Persado - New York City, NY June 2022 - August 2022
  - Contributed to Java Spring Boot microservices powering NLP-based marketing automation, implementing new features and fixes that integrated with internal web tools and REST APIs
  - Assisted in designing and documenting RESTful API endpoints within the Spring Boot framework to deliver personalized content to enterprise dashboards built with React (TypeScript + React)
  - Updated GitHub Actions CI/CD workflows to improve build reliability and slightly reduce deployment times by about 20%
  - Participated in Agile sprints, collaborating on Git-based code reviews to ensure smooth integration of backend modules
  - Collaborated with backend engineers to test microservice reliability and performance in Docker-based environments
- **Software Engineering Fellow**, CodePath - San Francisco, CA June 2023 - August 2023
  - Led interactive Python programming sessions for 150+ students, applying data structures, algorithms, and debugging best practices to real-world coding challenges.
  - Facilitated collaborative programming in breakout groups, increasing student engagement by 25% through peer-driven problem solving and group session teamwork.
  - Conducted mock technical interviews, coaching students on algorithmic thinking, time/space complexity trade-offs, and whiteboard coding under time constraints.

## Projects

- **PDF AI Study Generator** [github.com/SakibKhan1/pdf-ai-study-generator](https://github.com/SakibKhan1/pdf-ai-study-generator)
  - Engineered backend with Python Flask, SHA256 caching, and OpenAI API integration to parse PDFs into AI-generated study materials, optimizing scalability for concurrent users
  - Developed responsive React frontend with drag-and-drop PDF upload and dynamic AI-generated content display, deployed seamlessly via Vercel with CORS-enabled API integration
  - Implemented API logic, caching fallback, and backend deployment workflows using best practices for performance and reliability
- **LeetCode Organizer (iOS Mobile App)** [github.com/SakibKhan1/leetcode-organizer-ios-app](https://github.com/SakibKhan1/leetcode-organizer-ios-app)
  - Built using Swift and SwiftUI; designed local data architecture using FileManager and @AppStorage to persist user solutions, progress history, and structured problem metadata
  - Engineered modular backend logic for multi-solution storage and deployed the app to the App Store showcasing complete product delivery
- **LinkNest - Smart Bookmark Manager** [github.com/SakibKhan1/linknest-bookmark-extension](https://github.com/SakibKhan1/linknest-bookmark-extension)
  - Built a Chrome extension using React, JavaScript, Vite, and Chrome Extensions API to enable client-side bookmark tagging, searching, filtering, and editing with real-time updates
  - Published to the Chrome Web Store, utilizing chrome.storage.local for persistent tag syncing and implementing auto-scroll/highlight effects on new entries for enhanced UX