

Krish Patel

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EDUCATION

University of North Carolina at Chapel Hill

May 2026

B.S. Computer Science, Minor Data Science

Current GPA: 3.86

Courses: Data Structures & Analysis, Modern Web Programming, Files & Databases, Algorithms & Analysis, Internet Services & Protocols, Cryptography, Digital Logic & Computer Design, Foundations of Software Engineering, Computer Organization, Systems Fundamentals, Distributed Systems, Mobile Computing Systems

SKILLS

Languages: Python, C++, C, JavaScript/TypeScript, Go, Swift, SQL, SystemVerilog, Java, HTML/CSS, \LaTeX

Frontend & Mobile: React, Next.js, SvelteKit, Angular, TailwindCSS, SwiftUI

Backend, Cloud, & DevOps: AWS, Supabase, Vercel, Git, Docker, PostgreSQL, SQLite, Flask, FastAPI, Express

ML & Data: PyTorch, Core ML, NumPy, Pandas, Tableau

EXPERIENCE

Fidelity Investments | *Incoming Software Engineering Intern*

June 2025 – Aug. 2025

Competitive Programming Club | *Mentor*

Sept. 2024 – Present

- Guided students through problem-solving strategies and common patterns during weekly meetings
- Collaborated with teammates on timed problem sets to prepare for regional competitive programming competitions

Carolina Web Dev Club | *Software Engineer*

Aug. 2023 – May. 2024

- Built and maintained web apps for internal tools and club showcases using React and Supabase
- Organized and led a series of React and web dev workshops for new club members

PROJECTS

Audionaut | *SwiftUI, Core ML, AWS Lambda, S3, Amazon Transcribe*

- Developed a iOS app for recording, importing, and managing transcription, using Core ML-optimized Whisper models for on-device processing and Amazon Transcribe for accurate cloud transcription
- Enabled real-time sync and scalable audio storage via AWS Lambda and S3, and integrated AI services like OpenAI and Gemini for smart summarization and content analysis

Neural Network From Scratch  | *C++*


- Engineered a feedforward neural network in C++ without external libraries, implementing forward propagation, backpropagation, and SGD at a low level
- Trained and evaluated model on a seeds dataset using a 5-fold cross-validation pipeline, achieving ~94% accuracy

UNC CSXL Admin | *TypeScript, Angular, Python, FastAPI, PostgreSQL*

- Built a fullstack admin dashboard to manage lab schedules, office hours, and employee availability, used by the CSXL co-working space
- Designed and consumed RESTful APIs with FastAPI and PostgreSQL, connecting them to a responsive Angular UI for real-time tracking, event coordination, and streamlined workflows
- Led Agile sprints, code reviews, and cross-team collaboration to deliver production-quality features on schedule

PeerBeam   | *Go, SvelteKit, TypeScript, WebRTC*

- Built a peer-to-peer file transfer web and CLI app that avoids relay servers, enabling direct connections for faster and more private transfers
- Tuned WebRTC parameters to improve transfer speeds and reliability across different networks and browsers
- Implemented QR-based connection setup for seamless peer discovery without centralized coordination

Chrome Dino on FPGA  | *SystemVerilog, MIPS Assembly, Vivado*

- Built the Chrome Dinosaur Game on an FPGA by designing a full MIPS computer, including a CPU, accelerometer, keyboard, display, and sound I/O
- Programmed game logic in assembly and designed hardware components in SystemVerilog, integrating everything in Vivado