

Krish Patel

 krishspatel.com  github.com/6b70  kspatel8  kspatel8@protonmail.com

EDUCATION

University of North Carolina at Chapel Hill

B.S. Computer Science, Minor Data Science

May 2026

Current GPA: 3.86

SKILLS

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

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

Backend & DevOps: Supabase, PostgreSQL, SQLite, Flask, FastAPI, Express

Cloud & DevOps: AWS, GCP, Vercel, Git, Docker

RELEVANT COURSEWORK

- Data Structures & Analysis
- Modern Web Programming
- Files & Databases
- Algorithms & Analysis
- Internet SVCS & Protocols
- Cryptography
- Digital Logic & Comp Design
- Foundations of SWE
- Computer Organization
- Systems Fundamentals
- Distributed Systems
- Mobile Computing Systems

EXPERIENCE

Fidelity Investments | *Incoming Software Engineering Intern*

June 2025 – Aug. 2025

PROJECTS

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 requiring accounts or centralized coordination

MacSpresso  | *SwiftUI, AppKit*

- Created a macOS menu bar app to keep devices awake during long-running tasks like downloads and renders
- Integrated with macOS's native caffeinate utility, providing a one-click UI for managing system sleep
- Added live status indicators in the menu bar to show active sleep prevention and provide easy monitoring and control

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

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

- Built an admin panel in a team of four, streamlining CSXL scheduling and site management for administrators
- Developed new API endpoints in FastAPI, integrating with PostgreSQL to store, validate, and retrieve scheduling data
- Built an interactive dashboard in Angular, providing admins with an intuitive, error-resistant UI for managing site
- Followed Agile methodology and the Software Development Life Cycle (SDLC), collaborating on feature planning, sprints, and code reviews