Dev Patel (He/Him/His)
Curiosity. Innovation. Action.

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EDUCATION

University of North Carolina at Chapel Hill   *Expected Graduation* (May 2026)
- **Double Major:** Computer Science (B.S.) & Business Administration (B.S.B.A.)
- **Relevant Coursework:** Data Structures & Algorithms, Software Engineering, Web Programming, Machine Learning
- **Community Activities:** Iota Nu Delta (President & Co-Founder), App Team Carolina, Business Technology Club, Spikeball Club, Competitive Programming Club, and Finance Society

TECHNICAL SKILLS

Programming Languages: Java, Python, C, JavaScript, TypeScript, Swift, HTML/CSS (Tailwind)
Technologies & Frameworks: React, Node.js, Express, SpringBoot, PostgreSQL, Firebase, Docker, AWS Cloud, Kafka, React Native

EXPERIENCE

Amazon - Seattle, WA   May 2025 - Present
Software Developer Intern
- Implementing a fully automated **EC2** data validation pipeline in **AWS** by encoding complex business logic as **Z3** constraints and applying **automated reasoning** to identify unsellable instances—surfacing key metrics in **CloudWatch** and reducing capital expenditures by ~$10K per instance.

Power - Remote   January 2025 - Present
CEO & Co-Founder
- Co-founding an AI-powered platform that converts natural language prompts into end-to-end business automations, enabling non-technical users to build workflows with zero code.
- Leading the development of the platform's core infrastructure using **React**, **Node.js**, **n8n**, and **OpenAI's GPT-4**, streamlining backend task creation and targeting a 90% reduction in workflow setup time.

Voicera - Remote   August 2024 - December 2024
Software Engineer Intern
- Optimized core components using **TypeScript** and **React** in Voicera's multimodal AI app—reduced UI latency by ~25% and cut component load times by ~30% through targeted refactoring and performance tuning
- Conducted 40+ code reviews and resolved 100+ bugs, boosting overall application responsiveness and raising front-end test coverage by 15%

Arrow Logistics - Remote   June 2024 - August 2024
Software Engineer Intern
- Implemented a dynamic real-time shipment tracking system using **Node.js**, **Express,** and **PostgreSQL**, improving tracking for 1,000+ daily shipments and boosting data processing efficiency by over 20%.
- Developed and integrated **API** solutions for real-time shipping updates, utilizing **Kafka** for event-driven architecture to ensure reliable and scalable message processing, increasing customer engagement by 15%

Depository Trust & Clearing Corporation (DTCC) - Tampa, FL   June 2023 - August 2023
Software Engineer Intern
- Learned and applied **SQL** database schemas and queries to efficiently support data storage and retrieval for a database containing over 300,000 entries.
- Designed and implemented **RESTful APIs** using **Spring Boot** and **Java** to enhance communication between front-end and back-end legacy financial systems on a web application utilized by over 3,000 employees.

PROJECTS

ClassMate | *Software Developer - Chapel Hill*
- Architected and developed a comprehensive web application to streamline the college course scheduling process, leveraging **ReactJS** and **Firebase**, actively collaborating to continuously enhance features, optimize performance, and integrate user feedback for a seamless scheduling experience
- Successfully expanded the application to 11 universities across the U.S, achieving a user base of over 25,000 students

Prem Machine Learning Predictor | *Python - Beautiful Soup, Pandas, Scikit-Learn*
- Developed a **Python** algorithm to predict Premier League outcomes using four seasons of data. Employed **BeautifulSoup** for web scraping and **Pandas** for data processing.
- Trained logistic regression and random forest models with **scikit-learn**, achieving 67.5% accuracy. Used expected goals and Poisson distribution for win probabilities.