NEIL GIDWANI

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EDUCATION

Cornell University, College of Engineering - *Ithaca, NY*   Anticipated Graduation May 2025

Bachelor of Science in Computer Science | Minor in Business

- **Relevant Coursework:** Object-Oriented Programming and Data Structures, Analysis of Algorithms, Practical Tools for ML and Data Science, Functional Programming, Discrete Structures, Introduction to iOS Development, Introduction to Machine Learning, Introduction to Database Systems, Computer Graphics
- **Campus Involvement:** Cornell FinTech Club, Tech Consulting at Cornell, Association for Computer Science UGs

SPECIALIZED SKILLS

- Technical Languages: Java, Python, OCaml, JavaScript, TypeScript, HTML, CSS, React.js, Node.js SQL, RESTful APIs
- Programs/Environments: Git, Tableau, Maven, Unix, Postman, Autodesk Inventor, AutoCAD, JUnit, UDP, TCP

ENGINEERING EXPERIENCE

Verizon, Software Engineer Intern - *Tampa, FL*   June 2023 - Aug 2023

- Developed and load-tested a scalable application that reports KPI data for Verizon's 100+ internal applications
- Delivered visual insights empowering management to make data-driven decisions regarding application development
- Utilized a PostgreSQL database to store and retrieve internal data (10,000+ metrics), improving application efficiency
- Designed and developed a Spring Boot Java API, enabling communication and data exchange between systems
- Integrated a Business Rules Engine into the application, enabling dynamic adaptability without requiring code changes
- Actively participated in Agile Scrum meetings, contributing to sprint planning, retrospectives, and daily stand-ups

Cornell Cup Robotics, Lead Software Developer - *Ithaca, NY*   Sept 2021 - Present

- Successfully developed and validated an A* search algorithm for an R2D2-like robotic lab assistant
- Incorporated LIDAR, infrared, ultrasonic indoor GPS, and encoders to enhance object detection on test-set by ~22%
- Created a dynamic virtual environment simulation to evaluate robot movements, utilizing Tkinter for GUI design
- Improved data transmission speed to Jetson by 23% through the implementation of JSON serialization

Cornell FinTech, Technical Product Manager - *Ithaca, NY*   Feb 2023 - Present

- Currently spearheading a team of 5 software developers in creating a market sentiment analysis application
- Previously collaborated with a team to develop a comprehensive financial dashboard tailored for student investors
- Designed and implemented new UI for existing dashboard using HTML, JavaScript, and React.js
- Scraped real-time market data to populate graphs and visualizations with increased update frequency of 200%

Blue Streaks Robotics Organization, **President** - *Saratoga Springs, NY*   Sept 2017 - Jul 2021

- Awarded the 2020 VEX Robotics Competition Build Award - Led to NY State Championship three consecutive years
- Developed programs for autonomous and manual motor control, incorporating the use of color and infrared sensors
- Facilitated bi-weekly meetings to teach engineering principles and programming fundamentals to younger students
- Created fundraising proposals and managed sponsorship outreach, collaborated with academic leadership for funding

PROJECTS/OTHER EXPERIENCES

Poker Odds Calculator (HTML, CSS, JavaScript, React.js, Node.js) - *Ithaca, NY*   Nov 2022 - Jan 2023

- Developed a web-based poker odds and equity calculator that allows users to play out different situations
- Included functionality for all different betting stages of standard Texas Hold'em Poker (pre-flop, flop, turn, river)
- Implemented API calls for mathematical calculations, resulting in accurate and efficient results by running simulations

OCaml Casino Suite (OCaml) - *Ithaca, NY*   Sep 2022 - Dec 2022

- Designed and developed a casino application using OCaml, offering Blackjack and Roulette games with 1800+ lines
- Implemented a game state management system that accurately tracks the individual rounds of Blackjack and Roulette
- Successfully achieved a 99.5% code test coverage rate through rigorous testing and automation processes

Find My Party (Swift) - *Ithaca, NY*   Sept 2021 - Jan 2022

- Developed iOS application using XCode and SwiftUI, integrated Google Maps SDK for enhanced user experience
- Awarded 2nd Place Overall App - Cornell University App Dev Hack Challenge FA 2021
- Participated in designing an app that allows users to find, create, and join parties, using agile development

Other Experiences: 2x Cornell BigRedHacks Hackathon Participant, Guest Services Associate at The Fresh Market (2021)