

Aryan Patel

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EDUCATION

Rutgers University

Bachelor of Science in Computer Science, Minor in Business Admin and Data Science

New Brunswick, NJ

Sep 2024 – May 2028

- GPA: 3.5 | Honors College | Dean's List
- Relevant Coursework: Data Structures, Honors Computer Architecture, Discrete Structure I, Linear Algebra

EXPERIENCE

New Brunswick Parking Authority

Data Engineer

Jun 2026 – Present

New Brunswick, NJ

- Architecting a **relational database** (schema design, normalization) to replace Excel-based revenue tracking
- Building automated **Python + Pandas** ETL pipelines, targeting a **70%+** cut in manual reporting hours
- Adding data validation and role-based access with audit trails, projected to reduce entry errors by **95%+**
- Designing one-click **SQL** reports and scoping a **Streamlit** dashboard for live revenue metrics

IPser Labs

Full Stack + AI/ML Intern

Jan 2026 – Present

Fort Worth, TX

- Building core components of a provisional **patent-backed** system for structured video conversations
- Developing dynamic **React** interfaces rendering role-based, branching conversation flows and interaction states
- Designing backend logic for structured conversation flows, delivering up to **25%** higher system efficiency

RU DCS

IT Support Engineer

Jan 2025 – Present

Piscataway, NJ

- Collaborating with system admins to deploy updates and improve infrastructure reliability and performance
- Conducting systematic testing and maintenance to minimize downtime and ensure operational continuity
- Resolving cross-platform hardware, software, and network issues across **15+** buildings serving **10,000+** daily users

Blueprint

Software Engineering Fellow

Feb 2025 – Apr 2025

New Brunswick, NJ

- Developed **production-grade** React features in a team-based **Agile** environment using modern frontend practices
- Integrated external **REST APIs**, powering dynamic, data-driven user interfaces and interactive workflows
- Debugged and optimized app performance by **10%** through structured testing, refactoring, and code reviews

PROJECTS

VoxIQ: Adaptive Accessibility Assessment | *Python, MySQL, OpenCV, MediaPipe, Tkinter, PyAutoGUI, Pyttsx3*

- Engineered an inclusive, adaptive **evaluation platform** that dynamically scales difficulty based on performance
- Won a **National Award**, showcased at a national-level Science and Technology Exhibition
- Integrated **Pyttsx3** speech and a touchless **OpenCV + MediaPipe** gesture interface for accessibility

HerLaunch: AI Powered Startup Incubator | *React, TypeScript, Supabase, Gemini & Fiserv API, Tailwind, Figma*

- Built a **full-stack** platform in a 24-hour hackathon, including a mentor-mentee matching algorithm
- Integrated **Gemini** and **Presage** APIs for AI-driven pitch feedback simulating investor evaluations
- Implemented secure payments via the **Fiserv API** and a **Supabase** backend with auth and real-time data

TECHNICAL SKILLS

Languages: Python, Java, C, SQL, JavaScript, TypeScript, HTML, CSS, R

Frameworks & Libraries: React, Next.js, Node.js, FastAPI, Django, Tailwind CSS, Pandas, NumPy, Matplotlib

Databases & Tools: MySQL, PostgreSQL, Supabase, Git, GitHub, Docker, Postman, Jira, Jupyter, VS Code

Concepts: REST APIs, ETL, Data Structures & Algorithms, OOP, Unit Testing, Agile, CI/CD, Data Engineering