

# Dev Patel

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**Summary** — US Citizen and Electrical and Computer Engineering student with experience in systems engineering, reliability analysis, and process automation (Python/SQL). Skilled in physical system diagnostics, failure analysis, and interpreting complex technical requirements to implement robust maintainability solutions.

## Education

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### Rutgers University

*Bachelor of Science in Electrical and Computer Engineering*

**Expected Graduation: May 2026**

*New Brunswick, NJ*

- Minor in Human Resource Management
- Relevant Coursework: Systems Engineering Processes (Capstone Design), Software Engineering, Engineering Economics, Linear Systems & Signals, CAD in Mechanical Engineering, Machine Learning, Parallel & Distributed Programming, Digital System Design

## Experience

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### Unit Computing Specialist

*Office of Technology & Instructional Service (Rutgers Business School)*

**Sept 2021 – Present**

*Piscataway, NJ*

- Analyzed system reliability and performed root cause failure analysis on hardware for 100+ terminals, implementing maintainability solutions to ensure high availability for 1,000+ users
- Executing large-scale hardware/software maintenance for 275+ campus workstations, ensuring proper network configuration and seamless integration into the enterprise domain
- Engineered an automated data-extraction tool via a custom internal web application that utilized image processing to extract hardware service tags, reducing manual inventory data entry by 70%
- Authored formal technical documentation for virtualized environments, standardizing operational procedures and interpreting technical requirements to reduce Tier-1 support escalations

### Technology Consultant

*Freelance*

**Mar 2025 – Present**

*Piscataway, NJ*

- Conducted failure analysis on hardware and network systems, utilizing top-down troubleshooting methodologies to resolve connectivity and IoT integration issues
- Acted as a technical liaison by interpreting complex system diagnostics and translating technical requirements into clear, actionable guidance for end-user operations

### SQL Assignment Grader

*Rutgers University*

**Sept 2025 – Present**

*Piscataway, NJ*

- Analyzing and debugging relational database architectures (MySQL), reviewing complex multi-table joins, data aggregation logic, and structural schema design
- Executing code reviews across 100+ query submissions, verifying adherence to standardized structural rubrics and providing targeted technical feedback to optimize database query performance and enforce best practices

## Projects

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### Serendipity: Privacy-Preserving Social Discovery Badge

*Raspberry Pi 5, KiCAD, LTSpice, Edge AI Processing, LLM Optimization, Python, Data Pipelines, Audio Signal Processing*

- Applied top-down design principles to engineer embedded system logic for continuous acoustic data acquisition
- Developed an integrated test approach to optimize on-device computational pipelines, successfully validating the deployment of a quantized multimodal large language model

## Technical Skills

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- **Systems & Administration:** Linux/UNIX, Virtualized Environments (Virtual Labs), Cloud Platforms, Enterprise Domain Integration, Workstation Provisioning, Raspberry Pi, Bloomberg Terminal Deployment
- **Networking:** LAN Configuration, Wireless Access Points (WAP), Network Troubleshooting, IoT Peripherals
- **Scripting & Databases:** Python, SQL (MySQL), C++, JavaScript, HTML/CSS, Swift