

# Vashu Patel

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**TECHNICAL SKILLS:** Python, Java, C, C++, C#, HTML/CSS/JS, MYSQL, PHP, Linux, MS Office, RedwoodJS, Unity, PLSQL, Blender, Jira, GitHub, Git, Spatial

**INTERPERSONAL SKILLS:** Analytical Thinking, Adaptability, Event Organizational, Multi-Tasking, Positive Attitude, Time Management, Creative, Collaborative

## EDUCATION

### New Jersey Institute of Technology

Bachelor of Science in Computer Science

Newark, NJ

Dec 2023

GPA: 3.52

- Dean's List [2020 – 2023]

## EXPERIENCE

### Full Stack Developer Intern

May 2023 - August 2023

NJ Alliance of Family Support Organization, NJ

- Leveraged PHP to design and implement efficient database interactions, achieving a **15%** reduction in query response time and ensuring seamless data retrieval for dynamic web applications at NJAFSO.
- Engineered responsive and intuitive user interfaces by implementing dynamic forms with JavaScript and ensuring an aesthetically pleasing design using CSS.
- Spearheaded the development and implementation of a dynamic participant intake system, enhancing efficiency by **50%** through streamlined data processing and validation procedures.

### VR Development & Photogrammetry Fellowship

June 2023 – August 2023

Universe & Global Mobile Software, Newark, NJ

- Used Drone Photogrammetry to develop 3D model of the Newark City Hall with **85%** accuracy.
- Employed Blender and Unity to refine the 3D model and implement real physics for the VR world.
- Deployed VR Worlds to the hosting service known as Spatial.

### VR Development Intern

July 2022 – August 2022

Newark Youth One-Stop Career Center, Newark, NJ

- Used Unity Game Engine and C# Programming to build 3D games and virtual worlds in the Metaverse.
- Deployed apps across WebGL, MacOS and VR headsets such as Oculus Quest, Rift and Valve.
- Collaborated with the design team to create immersive and user-friendly interfaces in virtual environments.

### IT Intern

January 2020 – March 2020

City of Newark, Newark, NJ

- Learned and helped technicians in imaging computers as required on the network of the City of Newark.
- Assisted desk attendants by recording customers' issues, reporting them and learning how to solve them.
- Collaborated with fellow interns and professionals, fostering a dynamic and inclusive working environment.

### Tutor

June 2021 – August 2021

NJIT Educational Opportunity Fund, Newark, NJ

- Helped rising college freshmen familiarize themselves with college pre-calculus syllabus.
- Provided personalized tutoring to help students excel in college pre-calculus coursework.

## PROJECTS

### CrushedIT Task Management Project – NJIT 2022

- Developed CrushedIT, an efficient task and time management application using RedwoodJS, & PostgreSQL.
- Integrated seamlessly with the Google Calendar API to retrieve and synchronize appointments, achieving a **95%** accuracy rate in appointment scheduling.
- Successfully collaborated effectively with a diverse team of fellow students, enhancing interpersonal and communication skills to ensure the timely delivery of the project.

### Pascal-Like Simple Language Compiler Project - NJIT 2022

- The compiler was a three-part project with a lexical analyzer, parser, and interpreter, with pre-set syntax and grammar rules for the language.
- The compiler language is built to compile the provided code with **95%** accuracy and return any errors—syntax, compiler, logical, etc.—just like a working compiler.

## Leadership & Involvement

### NJIT Hindu YUVA Club — President 2023

- Leading & organizing club meetings and events including cultural festivals & community service activities.
- Fostering a positive and inclusive club culture that values diversity, teamwork, and personal growth.
- Collaborating with other student organizations and maintaining the club's budget.

## RELEVANT COURSEWORK

- |   |                     |                               |
|---|---------------------|-------------------------------|
| • Advanced Database Management & Design | • Computer Networks | • Discrete Mathematics        |
| • Advanced Data Structures & Algorithms | • Computer Systems  | • E-Commerce Technology       |
| • Website Development                   | • Cybersecurity     | • Digital Crime               |
| • Operating Systems                     | • Data Science      | • Technology Startup Concepts |