# Satya Pandya

**Contact:** +1 (609) 651-6297 | **Email:** satya.pandya01@gmail.com | 5 Heath Ct Princeton NJ – 08540
**LinkedIn:** https://www.linkedin.com/in/satyapandya/ | **GitHub:** https://github.com/Satya191

---

## EDUCATION & HONORS

**Rutgers University**                                          *Sep 2021 – Present | New Brunswick, NJ*
Bachelor of Science in Computer Science                                          *Cumulative GPA: 3.67*

**Relevant Coursework:** Data Structures, Intro to Discrete Structures I, Computer Architecture, Introductory Linear Algebra, Calculus II, Intro to Philosophy.

**High School**                                                    *Sep 2017 – Jul 2021 | Princeton, NJ*
West Windsor-Plainsboro High School South                                          *Cumulative GPA: 3.45*

**Relevant Coursework:** AP Computer Science A, AP Calculus BC, AP Biology, AP Chemistry, AP Language and Composition, AP Literature, AP Calculus AB, AP Physics C Mechanics and E&M, AT Physics Honors, French 3 Honors.

**Rutgers University Pre-Medical Honors Program** Oct 2017 - Dec 2017 | Rutgers New Jersey Medical School

## SKILLS

- **Programming:** Java, Python, C, HTML, CSS, JavaScript, PHP, SQL, PostgreSQL
- **Web Security:** Cross-Site Scripting (XSS), Cross-Site Request Forgery (CSRF), Authentication, Transport Layer Security (TLS), Networking (Network types, Protocol, Port, Subnetting, etc.).
- **Miscellaneous:** Git, Linux, Unix, Port Scanning, Wireless Attacks (Replay, De-authentication, Evil Twin), File Permissions.

## PROJECTS

**Virtual Parent**                                                    *Sep 2021 - Oct 2021*
- Developed a chatbot that parents can customize based on a rule-based algorithm to guide their children in their absence.
- **Facial recognition** with **machine learning** was added as an advanced feature to recognize the child's mood (happy, sad, etc.). The chatbot can guide the child accordingly & notify parents of any anomalies.
- Deployed the web application using **HTML**, **Flask,** & **Python**; used OpenCV & HAAR Cascades (ML object detection algorithm) for facial recognition model; backend database was created by using **PostgreSQL**. Made globally accessible through **ngrok**.
- Facial recognition model was 96% accurate; Declared winner for Hackathon HackRU Fall 2021(https://devpost.com/Satya191)

**Real-Time Internet Banking**                                                    *Jan 2021 - Mar 2021*
- Developed a secure web application to perform real-time banking activities such as cash deposit/withdrawal, money transfer, user account management(login/sign-up), etc.
- Created front end using **HTML, CSS, & JavaScript**; backend was built using **PHP, Apache Web Server,** & incorporated SQL server for database management.
- Several security handlers were created to mitigate security risk, such as **malicious text detection**, **SQL injection query detection**, & **invalid request detection**.

**Cyberspace**                                                    *Jan 2021 - Jun 2021*
- Created a virtual Cyberspace using a Pfsense Virtual Router, Windows 2016 Server, Security Onion, Kali Linux, & other VM's.
- The lab performed many activities such as scanning network traffic while running attacks to detect malicious packets, leverage operating system vulnerabilities, exploit buffer overflows using heap memory & assembly language code while simultaneously launching buffer overflow attacks on previous vulnerable operating systems. Managed users & groups in Active Directory.

**Graph Generator**                                                    *Jun 2020 - July 2020*
- Designed a custom graph generator using python, which helps students identify their weaknesses in core topics on exams.
- The generator will display graphs that highlight the differences in mastery & competence in different core topics for the student.

## WORK EXPERIENCE & LEADERSHIP

**Customer & Technology Associate | Staples**                              *Jun 2021 - Sep 2021 | Princeton, NJ*
- Managed Staples IT operations such as network & database administration.
- Guided other employees with IT Operations & worked as a customer care executive to solve technical queries.

**Advisor & Member | FIRST Robotics**                              *Sep 2017 - Jun 2018 | Princeton, NJ*
- Designed, organized, & conducted FIRST Robotics events & competitions.
- Advised multiple teams in their project planning, including requirements gathering, data collection, analysis, development, & modeling.

## LEADERSHIP & EXTRACURRICULAR

**Certifications**: Udemy Python Bootcamp, **PADI Certified Open Water Diver**.
**Accolades**: 1st Place, Statewide Hackathon (Hack JA); Social Good Track Winner at HackRU, Varsity Track, & FIeld/Cross Country.
**Extracurriculars:** Successfully organized a reading camp for **80+ students in 2018;** Hack the Box, Brazilian Jiu-Jitsu, Philosophy.