Satya Pandya

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EDUCATION AND HONORS

Rutgers University   *Sep 2021 – Present | New Brunswick, NJ*
B.S. in Computer Science   *Cumulative GPA: 3.68*

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

Rutgers University   *Oct 2017 – Dec 2017 | New Brunswick, NJ*
Honors Pre-Medical | 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.