u/JoblessQuestionGuy

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EDUCATION

Columbia University   New York, NY
B.S. in Computer Science   ***GPA: 4.157/4.0***   *Sep. 2022 – Oct. 2024*

- *Organizations: Application Development Initiative, Tau Beta Pi, Columbia Space Initiative*

EXPERIENCE

Florida Atlantic University   Boca Raton, FL
Engineering Research Intern   *Jun. 2023 – Aug. 2023*

- Secured funding from **NSF's Engineering Research Center for Smart Streetscapes (CS3)**.
- Developed a **Raspberry Pi**-based **data collection system** with IMU, GPS, and speed sensors.
- Automated tasks using Systemd services, **bash scripts**, and **Python** IPC libraries.
- **Trained PyTorch and scikit-learn models**, achieving **90% classification accuracy**.
- Won "**Most Outstanding Presentation**" award for project results.

Puberry Inc.   New York, NY
Software Engineering Intern   *Feb. 2023 – Jun. 2023*

- Developed interactive quizzes and a progress-tracking calendar for a **cross-platform puberty education app**.
- Enhanced the **Flutter front-end** with responsive design and smooth user interactions.
- Integrated **Google Firebase** for secure data storage and user authentication.
- Contributed to Puberry's **61% improvement in health test scores**.

PROJECTS

DevFest Hackathon Website | *Next.js, React, UI Design, Project Management*   *2024.devfestcu.com*

- **Led a team** of five engineers to create Columbia University's **DevFest 2024 website**.
- Designed a **comic book-style Next.js/React site** with interactive "page turning" features.
- Boosted event registration **by 100+ participants** with clear, accessible design.

Pitch Wizard | *Python, Flask, HTML/CSS, JavaScript, jQuery, Docker, UI/UX Design*   *pitchwizard.lol*

- Built a web app to teach users how to identify baseball pitches, like fastballs and curveballs.
- Developed **interactive lessons and quizzes** using **Flask** with per-user progress tracking.
- Designed the front-end UI with **HTML/CSS**, **JavaScript**, and **jQuery** for an engaging user experience.

OpenAir-VPN | *Linux, Bash, Shell Scripting, Networking, CLI*

- Created a **Linux CLI** to manage Wireguard and OpenVPN connections.
- Implemented an iptables-based killswitch, Systemd integration, and LAN access options.
- Released the project as **open-source** under the MIT license, emphasizing usability and community contributions.

Baseball Analytics Dashboard | *React, R, RESTful, API*

- Developed a **React web interface** for visualizing pitch data for the Georgetown University Baseball team.
- Integrated with an **R Plumber REST API** to display pitch trajectories and strike zone grids.
- Delivered an interactive tool to help coaches and players analyze pitching performance.

SKILLS

Programming Languages: Python, SQL, JavaScript, TypeScript, Go, C, C++, Java
Technical Skills: Git, Linux, Docker, AWS Cloud, Bash, LaTeX, HTML, CSS, UX/UI Design, Database ORM
Libraries & Frameworks: React.js, Next.js, Node.js, Selenium, Flask, SQLAlchemy, PostgreSQL, MySQL
Soft Skills: Prototype Development, Project Management, Problem Solving, Communication, Teamwork, Leadership