

# Ashwinder Bhupal

Computer Science Major

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## SUMMARY

Computer Science student at Rutgers University with strong skills in Python, Java, C++, SQL, and web development. Experienced in hackathons, research, and leadership roles, building innovative solutions with cloud platforms, agile workflows, and data analysis.

## TECHNICAL SKILLS

**Languages:** Python, Java, C++, JavaScript, HTML/CSS, SQL | **Frameworks/Tools:** React (basic), Git, Agile, MongoDB, Pandas, NumPy, scikit-learn | **Cloud:** AWS, Google Cloud (intro) | **Other:** Algorithms, Data Structures, Machine Learning, Data Visualization

## EDUCATION

**Rutgers University** – B.S. in Computer Science, Minor in Data Science | GPA: 4.0 | Sep 2024 – Present | Dean's List (2x)

**Princeton University** – Transfer Scholars Initiative | GPA: 3.7 | Jul 2024 – Aug 2024 | Neural networks, AI-brain links, Python programming

**Middlesex College** – A.S. in Computer Science | GPA: 3.96 | Sep 2023 – May 2024 | Dean's List (2x), 1st place coding challenge (2x)

## PROJECTS & HACKATHONS

**Railway Booking System** — *Java, JSP/Servlets, MySQL, Tomcat* | [GitHub](#)

Built train booking web app with role-based auth (Admin/Rep/User), 7 servlets + 25+ JSPs, JDBC (Prepared Statement), and session management; deployed on Tomcat.

**Vestibular System Stimulation Research** — **Princeton University** — *Python (NumPy, Pandas), Experimental Design, Statistical Analysis* | [Summary](#)

Analyzed effects of vestibular stimulation on auditory localization; designed experiment, cleaned/analyzed data, ran statistical tests; **no significant effect** found; presented results.

**Crime Activity Report** — **Hack TCNJ** — *HTML5, CSS, JavaScript, MongoDB, Google Cloud* | [GitHub](#) · [Devpost](#)

Built interactive crime data visualization site (FBI 1960–2019); implemented state/year filters and trend views; deployed via GCP with MongoDB-backed datasets.

**Government Port Parking Tool** — **HackNJIT** — *Python (Folium), HTML/CSS/JS* | [GitHub](#)

Created interactive map + reservation tool for port parking; used Folium for geospatial visualization and simple storage for reservation records.

## EXPERIENCE

**Amazon Fulfillment Center** – Warehouse Associate | Monroe, NJ | Oct 2024 – Present

- Optimized package routing via inventory software.
- Collaborated to enhance safety protocols and resolve scanning issues.

**Robert Wood Johnson Hospital** – Dietary Assistant | Somerville, NJ | Apr 2023 – Sept 2024

- Digitized dietary tracking to improve patient care.
- Reduced food waste using supply chain forecasting.

## LEADERSHIP & VOLUNTEERING

**President & Vice President** – Computer Science Club (Middlesex College); **Volunteer Lead** – Mayank Foundation;

**Management Team** – National Service Scheme

## CERTIFICATIONS

GitHub Foundations (2024), CS50x Harvard (2021), Foundations of Cybersecurity (2023), Project Management Foundations (2022)