

# SUMEDH SINHA

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## EDUCATION

**Rutgers, The State University of New Jersey at New Brunswick**

Expected Graduation: **May 2026**

*Bachelor of Science in Computer Science (Software Systems & Engineering) | Dean's List Scholar*

GPA: 3.6/4.0

**Relevant Coursework:** Operating Systems, Databases, Networks, Software Methodology, Computer Architecture, Data Structures, Algorithms, Discrete Structures, Digital Technology & Disruptive Change, Leadership in a Diverse Workplace

## SKILLS

**Languages:** Python, Java, C, SQL, XML, JavaScript, HTML/CSS, Bash

**Applications:** Android Studio, IntelliJ IDEA, MySQL Workbench, Azure DevOps

**Tools/Libraries:** AWS, React, Git, GitHub Actions, GDB, OpenCV, JSP, JDBC, Numpy, Pandas, MS Flows, Canva, Visio

**Interests:** Application Development, Software Engineering, Networking, DevOps, Cybersecurity, AI/ML Research

## EXPERIENCE

**EssilorLuxottica**

May 2025 – July 2025

*Information Systems Management Intern*

Dallas, TX

- Introduced a new **customer-focused CI/CD pipeline** for software deployments across **45+** sites in North America.
- Migrated legacy project data from Excel to **Azure DevOps**, & incorporated **7** auto-sync **KPI** dashboards in **Teams** using **Flows**.
- Collaborated with stakeholders to add **140+** test cases with **Python** scripts across **3** test suites for **targeted regression testing**.
- Authored **illustrated SOPs** & formalized **CMMI-aligned procedures** for tracking tasks, issues, & bugs.

**Rutgers University – Department of Computer Science**

September 2023 – Present

*Teaching Assistant (TA) | [cs.rutgers.edu](https://cs.rutgers.edu)*

New Brunswick, NJ

- Teach **2** weekly Python workshops for **50+** students, offering hands-on instruction while fostering student engagement.
- Grade **100+** assessments with a **3-day** turnaround, ensuring timely feedback while upholding academic integrity standards.
- Developed **5** code challenges (with autograders) to test critical thinking skills, & assist students with exam preparation.
- Identified **8+** student concerns to facilitate continuous improvement in course standards.

*Assignment Developer | [assignment-guru.cs.rutgers.edu](https://assignment-guru.cs.rutgers.edu)*

May 2024 – July 2024

- Designed OOP and DSA assignments for **2000+** students enrolled in foundational computer science courses.
- Participated in **5** Agile sprints with faculty to develop assignments in line with program objectives & rubrics.

**CGI**

September 2024 – December 2024

*Research Extern | via Rutgers MBS Externship Exchange Program ([externship.rutgers.edu](https://externship.rutgers.edu))*

New Brunswick, NJ

- Built an on-device AI model using **Python & Ollama** to analyze **1000+** customer interactions to enhance program efficiency.
- Applied sentiment classification to identify **10+** real world concerns, informing process improvements for customer programs.

**HaltDos**

July 2023 – August 2023

*Software Developer Intern (SDEI)*

Noida, India

- Delivered an interactive mobile app using **Java, Gradle & XML** to curate headlines from **8** online news agencies.
- Leveraged OOP principles & adapter design patterns to allow for reuse of components across multiple Android activities.

## PROJECTS

**CureBytes** | AWS, JavaScript, CSS, Google Gemini | **Rutgers HealthHack Award Winner** | [github.com/sumedhsinha/health-hack-2024](https://github.com/sumedhsinha/health-hack-2024)

- Deployed a web portal with **AWS Amplify & JavaScript** to enable AI-driven grading & performance tracking for **100+** students.
- Trained a Gemini model with **4** rubrics for real-time autograding and monitoring by instructional staff.
- Conducted code reviews & managed technical development, ensuring scalable and maintainable architecture during **48 hours**.

**BuyMe** | Java, JSP, MySQL, HTML, JDBC

[tinyurl.com/BuyMeAuction](https://tinyurl.com/BuyMeAuction)

- Devised a web-based auction platform using HTML & CSS to enable sales and live bidding for **200+** items.
- Combined **Java, JSP, & MySQL** to enable role-based user authentication (IAM) & session management using browser cookies.
- Incorporated a custom search query filter using MySQL and Java to refine search based on **4+ parameters**.

**SecureAccess** | Python, OpenCV, Flutter, MySQL

[devpost.com/software/ruverified](https://devpost.com/software/ruverified)

- Led team in designing facial recognition solution for restricted-access sites handling **800+** unique users per day.
- Implemented an **OpenCV & ML library** for facial feature comparison with profiles stored in a **MySQL database**, achieving **98%** recognition accuracy.

**myShell** | C, Makefile

- Created a comprehensive **command parsing algorithm** for a custom terminal shell, enabling support for tokenization, argument handling, wildcard expansion, piping and I/O redirection.

## EXTRACURRICULARS

**Rutgers University – Undergraduate Student Alliance of Computing Scientists (USACS)**

August 2023 – May 2024

*Technology Chair*

New Brunswick, NJ

- Hosted workshops on **Python, Java, & Git** for **20+ members** working on independent projects.
- Increased member retention by **30%** by executing community management and retention strategies.