SUMEDH SINHA

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EDUCATION

Rutgers University – New Brunswick   Sep 2022 – May 2026
B.S. in Computer Science | Dean's List Scholar   *GPA: 3.6/4.0*
Relevant Coursework: Networks, Systems Programming, Databases, Software Methodology, Computer Architecture, Data Structures & Algorithms, Discrete Structures, Digital Technology & Disruptive Change, Organizational Leadership

SKILLS

Languages: Python, Java, C/C#, SQL, XML, JavaScript, HTML/CSS, Bash
Applications: Android Studio, IntelliJ IDEA, Xcode, MySQL Workbench
Tools/Libraries: Git, GDB, Gradle, OpenCV, JavaFX, JSP, JDBC, Flask, Numpy, Pandas
Concepts: OOP, Data Structures, Algorithms, Agile Development, MVC, Database Management, Networking, Sockets, TCP/IP
Interests: Application Development, AI/ML Research, Software Engineering, Networking, DevOps, CyberSecurity

EXPERIENCE

EssilorLuxottica   May 2025 – Present
Information Systems Management Intern   *Dallas, TX*
- Summer 2025 position

Rutgers University – Department of Computer Science   Sep 2023 – Present
Teaching Assistant (TA) | cs.rutgers.edu   *New Brunswick, NJ*
- Direct **2+** weekly Python workshops for **50+** students, offering hands-on instruction while fostering student engagement
- Grade **100+** assignments with a **2** day turnaround, ensuring timely feedback while upholding academic integrity standards
- Host **3+** weekly office hours to support student growth in programming and problem-solving skills

Assignment Developer | assignment-guru.cs.rutgers.edu   May 2024 – Jul 2024
- Developed OOP and DSA assignments for **2000+** students enrolled in foundational CS courses for the 2024-25 academic year
- Participated in **5** Agile sprints in collaboration with faculty to develop assignments in alignment with course objectives & rubrics

Consultants to Government and Industry (CGI, Inc.)   Sep 2024 – Dec 2024
AI Research Extern | via Rutgers MBS Externship Exchange Program (externship.rutgers.edu)   *Remote*
- Built an AI model using Python and Ollama to analyze **1000+** customer interactions to enhance program efficiency
- Applied sentiment classification to identify **5+** real world concerns, informing process improvements for assistance programs

Haltdos   July 2023 – Aug 2023
Software Developer Intern   *Noida, India*
- Conceptualized an app using **Java, Gradle & XML** to curate headlines from **10+** news sites
- Implemented SwipeRefreshLayout, RecyclerView and Adapter design patterns to showcase more than **1000** articles in lists

Rutgers University – Innovation, Design & Entrepreneurship Academy (IDEA)   May 2023 – July 2023
Student Researcher   *New Brunswick, NJ*
- Managed **60+** greenhouse experiments with non-dispersive infrared sensors, relays for monitoring CO2 and Methane levels
- Analyzed sensor data using **Python & Raspberry Pi**, leading to new insights which can lead to a **30%** boost in crop yields

PROJECTS

CureBytes | *AWS, JavaScript, Gemini, Python* | **Rutgers HealthHack Winner**   github.com/sumedhsinha/health-hack-2024
- Deployed a web portal using AWS, React, and Python to enable AI-driven grading and performance tracking for **5000+ students**
- Fine tuned Google's Gemini with **10+** rubrics for real-time autograding and monitoring by instructional staff
- Authored code reviews and managed technical development, ensuring scalable and maintainable architecture

BuyMe | *Java, JSP, MySQL, HTML, JDBC*   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 create a dynamic website with user authentication and session management
- 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
- Led team in designing a facial recognition prototype for secure access applications for **800+** authorized personnel
- Implemented an **OpenCV & ML library** for facial feature comparison with profiles stored in a **MySQL database**, achieving **98%** recognition accuracy

myShell | *C*
- Created a comprehensive command parsing algorithm for a custom shell, enabling accurate tokenization, argument handling, wildcard expansion, and support for features like piping and I/O redirection

EXTRACURRICULARS

Rutgers University – Undergraduate Student Alliance of Computing Scientists (USACS)   Aug 2023 – May 2024
Technology Chair   *New Brunswick, NJ*
- Hosted workshops on various technologies, including **Python**, **Java**, & **Git** for **20+ members** working on projects
- Increased member retention by **30%** by planning and executing community management and retention strategies