Kusum Gandham

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EDUCATION

- **Rutgers University-New Brunswick** — New Brunswick, NJ
  Bachelor of Science in Computer Science; Minor in Human Resource Management — *September 2020 – May 2024*

- **Relevant Courses**
  Software Methodology, Data Management, Systems Programming, Computer Architecture, Computer Algorithms

EXPERIENCE

- **Instructional Lab Assistant** — New Brunswick, NJ
  Rutgers University-New Brunswick — *September 2023 - Present*
  - Orchestrated the maintenance and optimization of a cluster of **30** remotely accessible Linux machines, ensuring seamless performance and reliability used by **thousands** of students
  - Assumed a supervisory role overseeing day-to-day operations to uphold an environment conducive to research and academic pursuits for students and researchers.
  - Provided comprehensive tutoring services to fellow students requiring assistance in diverse computer science subjects, demonstrating a commitment to fostering academic excellence and collaborative learning, helping **200+** students a month.

- **Rutgers University Computing Academic Tutor Manager** — New Brunswick, NJ
  Rutgers University-New Brunswick — *September 2023 - Present*
  - First Manager for the RUCATS program where responsibilities include filtering through applications and guiding other tutors to elevate their skills and knowledge to better help their students.
  - Conducted weekly office hours for Introduction to Computer Science and Data Structures, providing comprehensive assistance to over **100** students per month.
  - Collaborated with Instructors and Teaching Assistants to guide students in advancing their knowledge and understanding of the course material by explaining data structure concepts and coding logic.

PROJECTS

- **HabitHatch!**
  Tools Used: MongoDB, Express, React, Node, Twillio, OpenAI, HTML/CSS/JS, TailwindCSS
  - Led the development of a collaborative task planner that gamifies task completion and rewards through a user-friendly dashboard including all previous achievements.
  - Utilized **OpenAI API** to create an interactive chatbot for an enriched learning experience.
  - Integrated **Twillio** that sends messages to users' phone numbers based on achievements to increase motivation for the clients.

- **Resume Reviser**
  Tools Used: Flask, Sqlite3, Python, HTML/CSS/JS, Bootstrap
  - Used PyPDF2 to scan resumes, take in job listing entries, and analyze the similarity between the entries using the **NLP** concept of **cosine similarity** to return a percentage match.
  - Used database to store users' previous resume submissions, lob listing, and percent match to enable users to improve their resume based on the results while providing suggestions.

- **Society Of Woman Engineers Meeting Tracker**
  Tools Used: MySQL, PHP, HTML/CSS/JS, Bootstrap
  - Collaborated with the Society of Women Engineers to create a user-friendly meeting sign-up page with a personalized user and admin dashboard for tracking attendance for at least **100** members.
  - Utilizes an admin page to open and close periods logging into attendance while maintaining a count of all meetings a certain user has attended sorted in descending order.
  - Embedded Instagram and Twitter pages on the user side that enable users to stay up to date with club events and announcements made through those social media pages.

SKILLS

- **Languages**: Java, C, Python, Javascript, SQL, HTML/CSS, FXML, PHP
- **Technologies**: GitHub, React, Flask, MongoDB, SQL, JavaFX, JSP, Bootstrap
- **Extracurriculars**: Attended 10+ hackathons, USACS Technical Mentor