

Kusum Gandham

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EDUCATION

- **Rutgers University-New Brunswick**

Bachelors in Computer Science; Minor in Human Resource Management

New Brunswick, NJ

September 2020 – May 2024

- **Relevant Courses**

Object-Oriented Programming, Data Structures and Algorithms, Databases, Data Management, Systems Programming, Computer Architecture, Introduction to Artificial Intelligence

SKILLS

- **Languages:** JavaScript, TypeScript, Python, Java, SQL, C, Kotlin, HTML/CSS, XML, PHP

- **Technologies:** React, MongoDB, SQL, Flask, Android Studio, Docker, Git

- **Certifications:** AWS Certified Cloud Practitioner (CCP)

EXPERIENCE

- **Cybersecurity Intern**

Gandiva Networks Inc

Plainsboro, NJ

June 2024 - Present

- Executed presentation on cybersecurity foundations to prepare for the Palo Alto PCCET certification, further demonstrating learned material by presenting a Python script that detects common open ports using TCP stream.
- Transformed Linux development environment by creating projects that introduced AWS security features, sockets, networking and encryption instances.
- Accelerated group capstone project on AI & ML by taking into account privacy, legal implications, and ethical considerations in the cybersecurity field.

- **Computer Science Tutoring Manager**

Rutgers University-New Brunswick

New Brunswick, NJ

September 2023 - May 2024

- Orchestrated the maintenance and optimization of a cluster of **30** remotely accessible Linux servers, ensuring seamless performance and reliability used by **1000+** of students.
- Appointed first tutoring manager of the program to oversee over **20** computing peer tutors; provided mentorship to tutors and led hiring processes for new tutors.
- Provided comprehensive tutoring services to fellow students requiring assistance in diverse computer science subjects in Java, demonstrating a commitment to fostering academic excellence, helping **200+** students a month.

PROJECTS

- **Society Of Woman Engineers Meeting Tracker**

Tools Used: React, MongoDB, Express, HTML/CSS/JS, TailwindCSS

- Launched in collaboration 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.
- Created an admin page to create meeting sessions implemented with search features, live updates on current meeting attendance, and maintaining attendance of club members on **MongoDB** using RESTful API.
- Increased social media presence by **70%** by embedding Google Calendar and Instagram pages on the user side that enable users to stay up to date with club announcements made through those social media pages.

- **PEEK Student**

Tools Used: Flask, Auth0, MongoDB, Google API, HTML/CSS/JS, ComputerVision, Bootstrap

- Created a web app centered around helping students find specific professors that meet their course requirements and preferences using Gemini AI to parse through professor ratings made on the web app made by fellow peers.
- Implemented a web scraper to parse through the Rutgers University's Computer Science Department page to stay up to date on courses and professors that are then saved into MongoDB to be used by Gemini AI.
- Led the development of a platform that utilizes PyPDF2 to scan pdfs and summarize their content using **Gemini API** and saves on to a users Google Doc using an **Auth0 token** to make API calls in order to make studying efficient.

- **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.
- Accelerated suggestions by using database to store users' previous resume submissions, job listing, and percent match to enable users to improve their resume based on the results while providing suggestions.

Extracurriculars: 9x Hackathon Winner, USACS Technical Mentor