

SARAH JAGERDEO

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EDUCATION

THE GEORGE WASHINGTON UNIVERSITY, School of Engineering and Applied Science Washington, DC
Bachelor of Science in Computer Science May 2024

Achievements: Recipient of the Gary and Judy Bard Entrepreneurial Engineering Endowment Award (2024) for Senior Design Capstone Project, ChatGPTravel

Certifications: AWS Certified Solutions Architect Associate

WORK EXPERIENCE

GEORGE WASHINGTON UNIVERSITY Washington, DC
Undergraduate Research Assistant, GW Cloud Systems Lab 2022 – 2023

- Utilized Python with libraries like **Pandas, Plotly, and Matplotlib** for **data analytics**, including **cleaning** network traffic datasets and analyzing latency, throughput, and packet loss.
- Conducted **data traffic analysis** through ping tests and load testing, evaluating website performance and generating **visualizations**.
- Developed **Python** scripts to analyze website traffic, create **Poisson distribution** visualizations, and report insights to improve website performance and reduce latency.

THE JOHN F. KENNEDY CENTER for the Performing Arts Washington, DC
NSO Development Intern Present

- Supported donor engagement** through **data entry, management, and analysis** using Tessitura CRM and Excel, identifying high-capacity donors, and optimizing **fundraising** efforts.
- Review and **process donor gifts**, assist with donor communication, and contribute to **campaign** execution.
- Conducted research** on donor behavior to tailor engagement strategies, generating **reports from CRM** systems for potential marketing tasks.
- Created a **data analytics** dashboard in **Sisense** using Tessitura data and **SQL** to track donor engagement and contributions during the NSO Florida Tour, to provide actionable insights to the development team.

PROJECTS

CHATGPTravel Washington, DC
AI Travel Agent | *Python, mySQL, AWS-RDS* September 2023 – May 2024

- Developed a **greedy algorithm** to optimize daily itineraries by selecting top-rated restaurants (≥ 4 stars) for each meal, using ratings from Yelp or Foursquare APIs.
- Leveraged AWS to deploy and **manage a remote database**, facilitating seamless storage and retrieval of user information using **SQL** commands and personalized itineraries on a dynamic website.
- Leveraged **OpenAI API** to filter activities based on user inputted preferences.

ANDROID NEWS APP Washington, DC
News App | *Kotlin, Andriod Studios, XML, Java* January 2024 – May 2024

- Developed Android News app for aggregating news from multiple sources, featuring top headlines, specific term searches, news from chosen sources, and local news based on user-selected locations.
- Demonstrated proficiency in Android concepts including **SharedPreferences, RecyclerViews, RESTful APIs**.
- Integrated a database for retrieving news and user information using **MySQL**, while using Google Firebase for user authentication.
- Wrote and efficiently **debugged** algorithms for collecting news from multiple sources, implementing robust networking solutions utilizing Google and News **APIs**.

SKILLS & ACTIVITIES

Technologies and Applications: Microsoft Office, Outlook, VSCode, Flask, AWS, Git, Sisense

Databases: MySQL, SQL, Google Firebase DB

Programming Languages: C, C++, Java, JavaScript, Python, HTML, CSS, SQL, Kotlin

Volunteer Work: 2024 GWU Sports Industry Networking and Career Conference; Served as a Technical Coordinator