**ALKA RHINE WILSON**

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**EDUCATION:**

**University of North Carolina at Charlotte (UNCC)**, Charlotte, NC Dec 2024

Bachelor of Science in Computer Science | Concentration: AI, Robotics & Gaming | Minor: Biology

**Relevant Coursework:** Artificial Intelligence, Software Engineering, Data Structures, Logics & Algorithms, Mobile Robotics

**Honors**: Dean’s List: Fall 2021-Spring 2024

**TECHNICAL SKILLS:**

**Programming Languages:** Python, JavaScript, C, Java

**Web Technologies:** HTML, CSS

**Database Query Language:** SQL (MySQL)

**Frameworks/Libraries:** Django, Flask, React

**Tools/Platforms:** Git, Bootstrap, Linux/Unix

**Other Technologies:** ROS (Robot Operating System)

**WORK EXPERIENCE:**

**Teaching Assistant**

*The University of North Carolina at Charlotte*, Charlotte, NC Aug 2022 – Present

* Coordinated office hours and proctored examinations.
* Conducted lab sessions, tutored students, and helped them with their assignments.
* Presented a successful approach to academic success and kept up with the maintenance of records and confidentiality of files.

**PROJECTS:**

**Django Booking System,** Backend  Summer 2024

* Developed a web application to manage restaurant bookings with features to create, read, update, and delete bookings
* Utilized Django, Python for backend development, and HTML, CSS for frontend
* Designed a relational database schema with models for Category and Booking using Django ORM.
* Created CRUD interface for bookings and an admin interface for managing data.
* Implemented a RESTful API using Django REST Framework to enable programmatic access to booking data.
* Ensured data integrity through validation and foreign key relationships.
* Maintained a clean codebase with a structured project layout.

**Skills Used**: Django, Python, HTML, CSS, SQLite, RESTful API, Django REST Framework, Git, GitHub

**Markdown Note-taking App,** Backend  Summer 2024

* **Developed a Markdown Note-taking App using Django and Python**, enabling users to upload, store, and process Markdown notes.
* **Implemented a RESTful API** for file uploads, note creation, and rendering Markdown to HTML
* **Integrated a third-party grammar checking API**, enhancing note quality with grammar suggestions and corrections.
* **Designed a relational database schema** with models for Notes, leveraging Django ORM for efficient data handling.
* **Built a user-friendly CRUD interface** for managing notes and incorporated an admin interface for easy data management.
* **Ensured secure and efficient file storage** with mechanisms to prevent name collisions and maintain data integrity.
* **Implemented text processing functionality** to convert Markdown text to HTML using Python libraries.

**Skills Used:** Django, Python, HTML, CSS, MySQL, RESTful API, Django REST Framework, Git, GitHub, Markdown Libraries, File Handling, Third-party API Integration.

**Responsive Restaurant Website,** Frontend([GitHub](https://github.com/Alkawil/Projects))–([Website](http://127.0.0.1:5500/index.html)) Fall 2023

* Implemented a touch slider using Swiper.js for a seamless and interactive user experience.
* Developed an 'About' section using flexbox, ensuring proper alignment and spacing across various screen sizes.
* Constructed a responsive footer section utilizing CSS grids for optimal layout and structure.
* Added a toggle menu bar effect with a search bar icon and integrated scrollspy for smooth navigation.
* Utilized a combination of Python, vanilla JavaScript, HTML, CSS, and client-service programming for robust development.
* Achieved a fully responsive web design that enables users to order, review, and explore specialty meals in a slider format, ensuring accessibility and usability across all device type

**Skills Used**: Swiper.js, Flexbox, CSS Grids, JavaScript, Python, HTML, CSS, Responsive Design

**Web-Based Forum for Music Discussions,** Software Engineering([GitHub](https://github.com/GTrac/hearddit)) Fall 2022

* Created a web-based forum as a group project providing a platform for music fans to have passionate and involved discussions about music and artists.
* Worked on both frontend and backend development of the web page.
* Utilized Python, JavaScript, HTML, CSS, and client-service programming.
* Implemented a mindful user experience, allowing users to create accounts, make and comment on posts, create message threads, and embed songs.

**Skills Used**: Python, JavaScript, HTML, CSS, Client-Service Programming, User Experience Design

**LICENSES & CERTIFICATIONS:**

**Technical Interview Prep Program**  
*CodePath*  June 2024 –Present

* Participating in an intensive program on algorithms, data structures, and problem-solving techniques to prepare for technical interviews.
* Engaging in hands-on coding sessions and mock interviews to improve technical and communication skills.

**Meta Back-End Developer Professional Certificate (Coursera) Summer 2024**

* 9 courses covering Python, Linux commands, Git, SQL, Version Control, Django, REST APIs, HTML, CSS, JavaScript
* **Skills:** Python, Linux commands, Git, SQL, Version Control, Django, REST APIs, HTML, CSS, JavaScript.
* Developed micro-projects and a Django web app; gained hands-on experience in GitHub and version control; built and deployed a Django application.