Jason Fan

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SKILLS

- **C#, Python, Java, C/C++, Visual Studio, .NET, Django, SQLite, SQL, JavaScript, HTML**

EDUCATION

Boston College   **May, 2024**
B.S. in Computer Science   *Chestnut Hill, MA*
- Dean's list Second Honors for three semesters.

WORK EXPERIENCE

Johnson Controls   **May, 2023 - August, 2023**
Software Engineering Intern   *Westford, MA*
- Implemented thousands of status configurations into a SQLite database for fire devices in the Next Generation Fire Workstation .NET app. Designed **unit tests** and utilized **DB Browser** to validate changes.
- Developed and repaired numerous features and defects in both the frontend and backend by leveraging **.NET** framework and debugging capabilities in Visual Studio.
- Designed an algorithm to validate thousands of strings between the runtime and the API server database by accessing multiple json files, libraries, and tables. Flagged strings were added to the database accordingly.
- Collaborated in a scrum team, utilized GIT, Code Collaborator, and Jira.

Johnson Controls   **May, 2022 - August, 2022**
Software Engineering Intern   *Westford, MA*
- Developed and maintained embedded fire panel software in C.
  - Utilized both Windows and Linux VM in order to develop different fire panels.
- Fixed hundreds of warnings and errors flagged by the compiler that caused defects for customers.
  - Utilized Windows, Linux commands, PTC Integrity, communication, and procedural programming knowledge, to efficiently understand hundreds of lines of code.
- Intern Environmental Challenge - Created and presented an environmental solution to convert waste into energy in front of a panel of judges.

PROJECTS

Boston College Teacher Assistant Portal
- Developed and deployed a TA Application Portal via Railway Cloud utilizing Django Web Framework and SQLite DB. Streamlined the process of managing TA applications, course registrations, and user interactions within an academic environment.
- Enabled distinct user role creation (admin, professor, student) with secure authentication and authorization.
- Integrated Django's crispy forms and bootstrap for enhanced user interface and form handling.
- Ensured real-time data handling and processing using Django's ASGI interface for asynchronous support.
- Implemented automated email notifications using Django's email backend.

Weather Website
- Utilized Python, Django, and HTML, to create a weather app. This app makes an API call to get real time weather of a city searched by the user and displays data on a website.