Suhana Sajid

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SKILLS & INTERESTS

Hard Skills
- Python Frameworks and libraries: Flask, Tkinter, Pygame
- Full-stack development
- CSS Frameworks: Bootstrap, Bulma
- Database design and management
- Version control

Soft Skills
- Problem-Solving
- Communication
- Attention to detail
- Continuous learning
- Independent thinking
- Team player

Programming Languages: Python (Expert) | HTML (Proficient) | CSS (Proficient) | Javascript (Proficient) | MySQL (Proficient) | Git (Proficient) | C (Working knowledge)

Interests: Data analysis and visualization, Entrepreneurship and startups, Accessible Education, Generative AI

Language Proficiency: English (Native Fluency)

PERSONAL PROJECTS

Sudoku Solver   *December 2022*
[Github - Sudoku-Solver](#)
- Designed an intuitive user interface to generate and solve Sudoku puzzles of varying complexity utilizing the standard Python library Tkinter and object-oriented design principles.
- Employed efficient data structures and algorithms and input validation mechanisms to optimize the solving process.
- Demonstrated strong problem-solving skills by addressing technical challenges independently, employing available tools such as Generative AI to devise innovative solutions.
- Documented the project thoroughly, including clear instructions on how to use the application and its underlying code on GitHub.

IdeaHub   *May 2022*
[GitHub - IdeaHub](#)
- Independently conceptualized, designed, and developed IdeaHub, a web-based platform for idea sharing and collaboration.
- Applied software engineering principles to determine project requirements, ensuring alignment with user needs and goals and adapting to evolving requirements.
- Implemented back-end functionality using a server-side framework Flask to handle user authentication and data storage and retrieval from a database management system.
- Created a responsive and user-friendly interface using Bootstrap and Jinja, a templating engine for Python, in conjunction with JavaScript.

EDUCATION

University of Nottingham   **Malaysia, Selangor**
BSc (Hons) in Computer Science   *September 2022- September 2023*

VOLUNTEERING EXPERIENCE

University of Nottingham School Experience Team   **Malaysia Selangor**
Member   *October 2022 – May 2022*
- Executed workshops for high school students, teaching fundamental concepts in Python programming.
- Collaborated with peers to effectively manage time to cover required topics within the limited time frame.
- Constructed learning resources and presented Python-based games to engage students and foster their interest in programming.
- Actively engaged 20+ students by asking questions and providing support to address any questions they had regarding the content.
- Communicated with students to convey programming concepts simply and understandably.