Shahid Hussain

Shahid2677@hotmail.com | linkedin.com/in/Shahid-Hussain | github.com/Shxhid01 | 0491-130-432

EDUCATION

The University of Adelaide   Adelaide, SA
Bachelor of Mathematics and Computer Science   *Feb. 2024 – Oct. 2026*

EXPERIENCE

Student Learning Hub   May. 2022 - Sep. 2023
Tutor

- Tailored one-on-one tutoring sessions to match each student's learning style, simplifying complex concepts and focusing on areas of difficulty.
- Guided students through problem-solving techniques and practice exercises, leading to significant improvements in their grades—from Cs to Bs and from Bs to As.
- Collaborated with teachers to align tutoring sessions with classroom curriculum and address specific areas of difficulty.

PROJECTS

Stock Trading Bot Simulation | *C++, QT Creator*   Sep. 2024 - Oct. 2024

- Developed a stock trading simulation application using C++ and Qt, implementing a Geometric Brownian Motion model to simulate realistic stock price movements, enhancing market trend accuracy.
- Engineered a trading bot with multiple strategies, including Buy and Hold, Mean Reversion, Moving Average and Trend Following, achieving dynamic strategy execution based on real-time market events.
- Designed a user-friendly graphical interface with real-time updates and interactive charts, improving user engagement and facilitating in-depth trading performance analysis.
- Integrated comprehensive performance analytics, such as cumulative return, maximum drawdown, volatility, and Sharpe ratio, providing detailed insights into trading strategy effectiveness.

E-Portfolio | *HTML, CSS, FIGMA*   Sep. 2024 - Nov. 2024

- Designed and prototyped the user interface in Figma, creating a visually appealing and intuitive layout highlighting key projects, language proficiencies, and personal information.
- Applied responsive design principles using CSS, including media queries and flexible grid layouts, to ensure a seamless experience across devices and screen sizes, enhancing accessibility and user engagement.
- Developed the e-portfolio using HTML and CSS, showcasing a strong web development and design foundation.

Arcade Game | *MATLAB*   Mar. 2024 - Apr. 2024

- Designed and implemented an arcade-style MATLAB application, integrating multiple mini-games such as Number Guessing, Blackjack, and Battleship, with a user-friendly menu system.
- Optimized code for efficiency and readability, ensuring smooth gameplay and ease of maintenance.

COMMUNITY INVOLVEMENT

Events Officer - Computer Science Club Committee   Oct. 2024 - Present

- Organized and coordinated tech-related events, workshops, and networking sessions for students.
- Managed event logistics, and communications, and ensured smooth execution, fostering community engagement.

Open Day Volunteer   Jul. 2024

- Served as a University Ambassador for the Computer Science department, guiding future students.
- Collaborated with faculty and staff to enhance the visitor experience and support department recruitment efforts.

TECHNICAL SKILLS

Languages: C, C++, MATLAB, HTML, CSS
Developer Tools: Visual Studio Code, Visual Studio, WSL, Qt/Qt Charts, Git, Figma