Sami Hussein

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Education

2019/10 – 2023/11	**Bachelor of Engineering (Honours) - Software Engineering** *Monash University* ⬀ First Class Honours: Grade H1 **CGPA**: 3.717/4 **WAM**: 80.345

Project Experience

2022/03 – 2022/11   **Student Internship Management Project**
Team project
- Crafted responsive Vue.js frontend, boosting user engagement and experience.
- Implemented Google sign-in and role-based access for enhanced security and convenience.
- Assisted with MongoDB backend development for our project.
- Designed intuitive admin dashboard, streamlining task efficiency.
- Collaborated within SAFe framework, ensuring efficient project delivery and alignment.
- Received positive user feedback, reflecting successful university workflow integration.

2023/02 – 2023/11   **GreenSHeart ReportCare** ⬀
Full-stack engineer
Worked as a full-stack engineer on the GreenSHeart project.
Key responsibilities:
- Tasked with integrating atomic design principles into the frontend, thereby amplifying the software maintainability.
- Diligently troubleshooting and rectifying bugs by enhancing code quality through strategic refactoring and best practice implementation.
- Optimizing API calls to boost system performance.

2023/02 – 2023/11   **Honours Research Project**
Research Profiler
Final Year Research Project: Develop a research profiler for comprehensive evaluation of researchers, utilizing data fusion techniques. Supervised by Dr. Wong Kok Sheik, Head of IT Research.

Responsibilities include:
- Collecting data from over 1000 diverse conferences and venues.
- Processing and analyzing publication venue data.
- Implementing an efficient framework for researcher evaluation.
- Developing algorithms for percentile ranking calculation.
- We aim to achieve over 90% accuracy in matching publication venues to percentile categories.

Skills Summary

Technical: Swift mastery of new languages/frameworks including Java, JavaScript, Python, and SQL, Static and dynamic modeling (UML class diagrams, sequence diagrams), Database design (ER/UML diagrams), Parallel computing (OpenMPI, CUDA, AVX), Multithreading (POSIX threads, OpenMP), Data visualization tools (Tableau, Vega-Lite).

Other: Business intelligence, Data warehousing, Data analytics trends, Adaptable to varying team sizes, Agile methodologies (Scrum, SAFe), Agile project management tools (Trello, Jira).

Languages

English	**Arabic**
IELTS 7.0	