AAKASH SHAMEER SRAZALI

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EDUCATION

B.S. Computer Science, University of Washington (UW), Seattle | 3.69 GPA **Sep 2019 – Jun 2023**
Key Courses: Data Structures, Software Design, Systems Programming, Programming Languages, Computer Graphics, Data Visualization, Data Management, HCI, Algorithms, Operating Systems, Networks, Distributed Systems, Security, Database Systems

American Degree Program, Taylor's University | 3.96 GPA **Jun 2018 – May 2019**
Malaysia Certificate of Education (SPM), Sri Bestari Secondary School | 4.00 GPA (9A+) **Jan 2015 – Dec 2017**

WORK EXPERIENCE

Undergraduate Teaching Assistant, UW CSE Department **Jan 2022 – Jun 2023**
- Taught CSE 351: HW & SW Interface, CSE 333: Systems Programming, CSE 442: Data Vis, CSE 412: Intro to Data Vis
- Provided support to students by conducting weekly office hours, leading quiz sections, and providing prompt assistance during lectures and on discussion boards as well as graded student assignments while providing constructive feedback
- Collaborated with the Professor to develop class syllabus, lesson plans, exams, and section slides that aligned with course objectives and academic standards, enhancing the overall learning experience for students.

Sudoku Web Development Team, SEAL Lab UW **Jun 2022 – Apr 2023**
- Led the deployment and redesign of the SEAL research team's website, enhancing its functionality, user experience, and visualization.
- Initiated substantial improvements to lab's scripts and website elements using HTML, CSS, and JavaScript
- Demonstrated proficiency in both Backend and Frontend development, effectively managing the websites and systems of subsidiary projects within the lab

Virtual Software Engineering Intern, J.P. Morgan Chase **Aug 2022 – Sep 2022**
- Developed a robust data analysis system and user interface leveraging stock price data, enabling efficient analysis
- Implemented a dynamic trading dashboard chart to visualize data, resulting in improved data comprehension and trading strategies
- Analyzed Perspective's open-source codebase, enabling valuable contributions to the development backlog, fostering ongoing enhancements and improvements to the software.

Classroom Technician Lead Supervisor, UW Academic Technologies **Jan 2020 – Mar 2022**
- Conducted routine checks and proactively troubleshooted any faulty equipment, ensuring optimal functionality and prompt replacement
- Supervised and managed a team of technicians, overseeing their activities in troubleshooting and replacing classroom equipment, ensuring timely and efficient resolution of technical issues.

Information Technology Internship, Hilti Sdn. Bhd. **Jun 2021 – Sep 2021**
- Immersed myself in daily development projects within the IT department to tackle real-life challenges in an international enterprise, and spanning areas such as Data Science, Cloud Computing, and Software Engineering.
- Configured hardware and software environments for testing procedures, ensuring reliable assessment of system performance.
- Utilized GIT for version control, maintained application source code, facilitated collaboration and streamlined development processes.

Perdana Fellow Internship, Ministry of Tourism, Arts and Culture (MOTAC), Malaysia **Jul 2020 – Oct 2020**
- Attached to the Minister of Tourism, Arts and Culture's Office, providing invaluable support to YB Nancy Shukri and her team.
- Organized and attended official events and Parliamentary meetings, actively participating in discussions and gaining valuable insights into the legislative process
- Responsible for the speeches for Parliamentary debates and government events, as well as managed the Minister's schedule and socials

SCHOLARSHIPS AND AWARDS

Microsoft Endowed Scholarship, UW CSE Department **2022 – 2023**
- Awarded undergraduate scholarship by Microsoft Corporation through the UW CSE Department.

Yayasan Telekom Malaysia Future Leaders Scholarship Award, Telekom Malaysia Berhad **2018 – 2023**
- Awarded full scholarship to study abroad at the United States, given excellent academic achievement. Only 4 selected to study abroad.

CODING PROJECTS

Distributed System Lab **Mar 2023**
- Implemented a linearizable, fault-tolerant sharded key/value storage system handling reconfiguration and the Shard Master component using Paxos replication, enabling dynamic reconfiguration and efficient load balancing among replica groups
- Extended the system's functionality by implementing two-phase commit with locking, guaranteeing serializability, deadlock-free behavior, and linearizability for all transactions, even in the presence of concurrent reconfigurations.

Personal Website/Portfolio **Sep 2022**
- Created personal website to showcase my portfolio as well as projects and resume. Built with HTML and JavaScript while being hosted on Netlify, to have my personal domain, aakashshameer.com

Tetris AI-Player **Jun 2022**
- Constructed an AI-player on Python that was able to beat anyone at Tetris by ideating an algorithm that plays optimally and efficiently

Animator, Animation System **Jan 2022**
- Successfully extended a spline-based animation system to support multiple curve types, implement a particle system simulation engine and produced a compelling animation that won Best Animation in my course.

LANGUAGES, IT SKILLS AND INTERESTS

Languages: English and Malay
IT Skills: Java, C, C++, Python, OpenGL, HTML, JavaScript, React, OCaml, Racket, SQL, R, Tableau, d3, VegaLite and Git
Interests: Programming, Chess, Football, Tennis, Formula 1 and Fantasy Football