

Tahsinul Abedin

Sydney, Australia | [LinkedIn](#) | +61434704244 | tahsinabe99@gmail.com

EDUCATION

The University of Sydney

Bachelor of Engineering Honours (Software)

Sydney, Australia

February 2020 – December 2024

- Recipient of Vice-Chancellor's International Scholarship

WORK EXPERIENCE

Strong Compute

Software Engineer

Sydney, Australia

August 2023 – November 2023

- Spearheaded MONAI medical imaging model development on Instant Supercomputer (ISC) with Python, integrating PyTorch and CUDA.
- Implemented check-pointing for model training continuity and optimisation against benchmarks, enhancing epoch fine-tuning.
- Utilised WSL for ISC terminal access and managed version control via GitHub and Bitbucket for collaboration.

Jacaranda Flame Consulting

Software Developer

Sydney, Australia

December 2022 – February 2023

- Led a team of 5 to develop a concert planning application for iOS and Android using React Native.
- Conducted weekly meetings and directed development according to the client's requirements.
- Implemented user authentication, email verification and Google Maps API to develop trip planning functionality.
- Worked with React, HTML and CSS to implement front-end of the app.

PROJECTS

Honour's Thesis Project

August 2023 – Present

- Conducted empirical research to analyse the impact of various 'k' value in k-fold cross-validation on the validation performance of supervised machine learning algorithms using open-sourced data.
- Working on providing actionable guidelines for machine learning practitioners on selecting the most effective 'k' value for specific classification tasks, based on empirical evidence and performance metrics.

Student Scheduler and Mapping website

August 2023 – November 2023

- Developed a web application utilising Java and Spring Boot for backend and TypeScript and React for front-end.
- Integrated FullCalendar.io API for seamless scheduling and Maze Map API for detailed campus navigation.
- Integrated user authentication and asset management system using JSON Web Tokens for security and MongoDB for efficient data persistence.
- Conducted comprehensive testing including unit, component, end-to-end testing with JUnit and Jest.

SKILLS

Python, Java, C, JavaScript, React, TypeScript, Django, Node.js, jQuery, AJAX, SQL, NoSQL, Spring Boot, AWS, JavaFX, CSS, HTML, Bootstrap, R, PyTorch, scikit-learn, Kubernetes, Docker, Agile Software Development and Object-Oriented Programming, Mobile Application development, Full Stack Web Development, Git.

VOLUNTARY WORK

Sydney University Bangladesh Student Society

President

Sydney, Australia

April 2022 – May 2023

- Successfully hosted over 20 events, including inter-university tournaments with over 100 participants and guests.
- Increased members from 50 to 137.

Engineering Mentor, Sydney University

Mentor

Sydney, Australia

January 2021 – May 2021

- Provided support, advice and organised mentoring sessions and group activities for newly joined students.

Sydney University Computer Science Society

International Representative

Sydney, Australia

September 2020 – September 2021

- Facilitated communication between international students and the School of Computer Science.
- Successfully co-hosted over 20 events.

REFEREE

Dr Shahadat Uddin

Senior Lecturer, Faculty of Engineering, The University of Sydney

shahadat.uddin@sydney.edu.au

+61433247048

Partha Majumder

Advanced App Engineering Senior Analyst, Accenture

partha.majumder@accenture.com

+61433899824

Syed Shahrukh Imam

Java Developer, Deloitte

syedimam@deloitte.com.au

+61466188995