

# BRYANT TAN YOU QUAN

## CONTACT



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## EDUCATION

### University of Wollongong

**Bachelor Of Computer Science (Digital Systems Security)**

(October 2020 - August 2023)

#### Relevant Modules

- CSCI203 - Algorithms and Data Structure
- CSCI235 - Database Systems
- CSCI251 - Advanced Programming
- CSIT121 - Object Oriented Design and Programming

### Ngee Ann Polytechnic

**Diploma in Chemical & Biomolecular Engineering (Pharma & Biopharmaceutical)**

(April 2015 - May 2018)

## TECHNICAL SKILLS

#### Web Development

- HTML, CSS, JavaScript, PHP, ReactJS

#### Programming Languages

- Java, Python3, C++

#### Database

- MongoDB, MySQL

#### Operating Systems

- Windows, Ubuntu on Linux

#### Others

- Git, Node.js, Wireshark, Metasploit

## SKILLS

- Excellent Team Player
- Strong Communication
- Problem Solving Skills
- Project management (Agile)
- Adaptability
- Critical Thinking
- Analytical Skills
- Multitasking
- Detail-oriented

## PROFILE

Dedicated and detail-oriented professional with a strong foundation in problem-solving and a keen focus on achieving results. Possesses exceptional patience and perseverance, allowing for effective handling of challenging situations. Demonstrates excellent communication skills and works seamlessly in team environments, fostering collaborative solutions. Known for unwavering attention to detail, ensuring precision in tasks and projects. Committed to achieving organizational goals through a combination of focus, determination, and teamwork.

## COURSEWORK

### CSIT321 - Final Year Project (FYP)

University of Wollongong

(2023 Session 3)

- Appointed as Project Lead to manage a team of 5 from the design to implementation phase of a mobile beer discovery application in a duration of 6 months.
- Main programmer for the project, handling full-stack developing which consists of React Native for the frontend and Node.js for the backend. Managed the creation of API connections using Axios.
- Creating of database system for the mobile application using MongoDB. Includes creating class diagrams and implementing relationships between data that is stored
- Responsible for hosting the mobile application on Heroku for real-time updates and scalability.
- Upholding Agile software development methodologies, specifically SCRUM, within our project team. Oversee the team's adherence to SCRUM practices, ensuring that our processes align with Agile principles and foster collaboration, transparency, and iterative development.

### CSCI203 - Algorithms and Data Structure

University of Wollongong

(2022 Session 2)

- Determine and compare the complexity of algorithms.
- Choose and use appropriate data structures and algorithms for a wide class of problems.
- Make effective use of abstract data types as a design technique and implement them using appropriate programming constructs.
- Demonstrate an ability to code efficient implementations of algorithms using appropriate choices of abstract data types.

### CSCI235 - Database Systems

University of Wollongong

(2022 Session 3)

- Develop and design advanced SQL and PL/SQL procedures, functions, and triggers. Apply indexing techniques to enhance performance in relational databases.
- Create efficient database transactions based on transaction processing principles and concurrency theory.
- Implement modern NoSQL databases, improve performance with indexing, and enhance reliability and efficiency using replication and sharding techniques.

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## VOLUNTARY WORK

### Sultan Mosque (10 June 2016, 24 June 2016)

- Serving porridge to community during Ramadan Period
- Assist in setting up the venue for Muslims to break their fast

### Sembawang Park Cleaning (12 August 2016)

- Help pick up litters around the beach area
  - Sorting of waste base on material
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## LANGUAGES

- English (Fluent)
  - Mandarin (Basic)
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## HOBBIES & LEISURE

- Watching animal documentary on BBC Earth
- Swimming
- Jogging
- Photography

## COURSEWORK

### CSIT214 - Advanced Programming

University of Wollongong

(2022 Session 2)

- Design and implement solutions to problems with the C++ programming language.
- Design and implement procedural-based programming to solve problems.
- Design and implement objects providing encapsulation, inheritance and polymorphism.
- Design solutions to problems through the use of generic programming.
- Design object-oriented solutions to problems.
- Incorporate advanced features in C++ to achieve efficient implementations.

### CSIT121 - Objected Oriented Design and Programming

University of Wollongong

(2022 Session 1)

- Effectively design and implement object-oriented programs in an integrated development environment
- Demonstrate an understanding and appreciation of the concepts of a well structured solution and good coding style within an object-oriented programming environment
- Create correct and maintainable object-oriented programs using an object-oriented programming language
- Apply the principles of reuse in software design and implementation

## WORK EXPERIENCE

### LostSG Escape Room (Part Time)

(2020 - 2023)

- Part-Time Escape Game Master
- Responsible for resetting escape rooms and handle front desk operations
- Assisting customers through the escape room

### Atotech S.E.A Pte Ltd (Intern 6 Months)

(2017)

- Assisting senior engineer with their day to day operations
- Oversee chemical automation plating process
- Maintaining laboratory's tank chemical conditions

### Tiong Bahru Bakery (Part Time)

(2015 - 2017)

- Handling order processing and table maintenance in the cafe
  - Handling of customer service
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