

# Wuttikorn Jiraroongrojana

--- Aspiring Software Engineer ---

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## OBJECTIVE

A BSc Computer Science student at Queen's University Belfast, seeking to contribute to innovative projects and cutting-edge technologies that drive solutions as part of a forward-thinking organization. Motivated to apply technical expertise, problem-solving abilities, and a collaborative approach to achieve impactful results. Seeking placement opportunities to further enhance my experience and connect with expertise within this field.

## EDUCATION

<b>Queen's University Belfast</b> - BSc Computer Science with International Year One	Belfast, Northern Ireland
Awarded International Office Undergraduate Scholarship	Sep. 2023 - Jun. 2027
Year 2: System Security and Cryptography, Software Engineering and System Development, Data Structure and Algorithms (81%), Theory of Computation, Professional & Transfer Skills (70%).	
Year 1: Object Oriented Programming (89%), Procedural Programming (75%), Circuit Principles 1 (83%) Circuit Principles 2 (61%), Digital System Design (85%), Computer Architecture (73%), Database (63%), Engineering Math 1 (64%) - Math 2 (68%), Engineer Design and Practice (92%).	
<b>Ekamai International School</b> - Business Diploma	Bangkok, Thailand
Awarded College Preparatory Diploma Emphasis in Business – CGPA 3.36	

## TECHNICAL SKILLS

Language: C/C++, Python, JAVA, CSS, HTML, JavaScript  
Developer Tool: Xcode, VScode, Visual Studio  
Database: MySQL, MongoDB  
Operating System: Windows, MacOS  
Microsoft Office Suite Proficiency (Excel, Word, PowerPoint, Outlook)

## SOFT SKILLS

- Effective communication
- Teamwork & collaboration
- Adaptability & willingness to learn
- Critical thinking
- Feedback and innovative oriented mindset

## PROJECTS

<b>Snake Game</b> - Personal Project – <b>Python</b>	Ongoing
<ul style="list-style-type: none"><li>- Developing a classic Snake Game to strengthen skills in Python programming and game logic.</li><li>- Will be implementing core game features such as real-time keyboard controls, snake movement, collision detection, and score tracking.</li></ul>	
<b>Engineering for People Design Challenge</b> - <b>JAVA</b>	Jan. – Mar. 2025
<ul style="list-style-type: none"><li>- Collaborated with a team of six to design and research on an incident reporting application aimed at improving safety in Johannesburg, South Africa.</li><li>- Researched and designed in-game tasks, including question development and surprise event planning.</li><li>- Led team meetings, coordinated development, and work along with another team member on implemented Player Class.</li><li>- Created use case diagrams and detailed use case descriptions for system modelling.</li><li>- Led the development of JUnit tests for the game codebase, achieving approximately 80% test coverage, ensuring reliability and stability throughout gameplay features.</li></ul>	
<b>Currency Converter</b> – Personal Project - <b>JAVA</b>	Dec. 2024
<ul style="list-style-type: none"><li>- Developed a Java-based Currency Converter application integrating a third-party API for real-time exchange rates, utilizing RESTful API calls, JSON parsing, and robust error handling to ensure accurate and user-friendly functionality.</li></ul>	
<b>Weather API</b> - Personal Project – <b>JAVA</b>	Dec. 2024
<ul style="list-style-type: none"><li>- Designed and implemented a Weather API in Java, integrating OpenWeatherMap to deliver real-time weather forecasts and data analysis.</li><li>- Developed robust RESTful API endpoints, ensuring efficient data retrieval, JSON parsing, and error handling for seamless functionality.</li></ul>	
<b>Expense Tracker</b> – Personal Project - <b>C++</b>	Nov. 2024
<ul style="list-style-type: none"><li>- Developed an expense management tool to track and categorize, making it easier to monitor financial habits.</li><li>- Implemented the ability to export transaction data to CSV format, allowing for seamless integration with Excel for further analysis or to be able to import it into a nonrelational database later (MongoDB).</li><li>- Designed and implemented core features, including adding, viewing, and deleting expenses.</li><li>- Utilized version control with Git and hosted the project on GitHub for easy access and collaboration.</li></ul>	

WORK EXPERIENCE

<b>Server and Cashier</b> - Thai Village Belfast – Part time	Nov. 2023 – Ongoing   Northern Ireland
<ul style="list-style-type: none"><li>- Excelled in a high-pressure environment and managing time to boost operational efficiency.</li><li>- Encouraged team members of 3 during peak hours to optimize workflow and increasing overall productivity.</li><li>- Maintained cleanliness and organization of dining and service areas, adhering to health and safety standards.</li><li>- Handled orders and financial transactions with meticulous attention to detail, ensuring accuracy and decrease errors in all transactions.</li></ul>	

EXTRA CURRICULAR / ACHIEVEMENTS

<b>Selected Presenter – Reach ’25: Engineers Without Borders</b>	Apr. 2025
<ul style="list-style-type: none"><li>- Selected as 1 of 10 teams (out of 60) to present at Reach ’25: Engineers Without Borders, in recognition of our innovative and community-driven solution addressing safety challenges in Johannesburg.</li></ul>	
<b>Sustainability Hackathon: The Belfast Agenda</b>	Oct. 2024
<ul style="list-style-type: none"><li>- Worked in a team of 5 to tackle challenges related to city redevelopment, targeting a 20% increase in overnight stays and improved city safety.</li><li>- Participated in workshops covering Jupyter, generative AI, and video content creation.</li><li>- Researched and analyzed datasets from OpenDataNI, contributing to our strategic approach with relevant insights.</li></ul>	
<b>Goldman Sachs Software Engineering Virtual Experience Program on Forge</b>	Jul. 2024
<ul style="list-style-type: none"><li>- Completed a job simulation as a Goldman Sachs governance analyst responsible for assessing IT security and suggesting improvements.</li><li>- Identified company usage an outdated password hashing algorithm by cracking passwords using Hashcat.</li><li>- Wrote a memo to supervisor summarizing a range of proposed uplifts to increase company’s level of password protection including extending minimum password length and using a dedicated hashing algorithm.</li></ul>	
<b>GE Aerospace Explore Digital Technology Virtual Experience Program on Forge</b>	Aug. 2024
<ul style="list-style-type: none"><li>- Completed a Vue.js UI development simulation for the Frontend Development Team, demonstrating proficiency in Vue SFC Playground.</li><li>- Applied Vue.js skills by adding features including headings, images, and dynamic variable displays. Implemented a compute button for efficient user interactions.</li><li>- Drafted clear technical requirements for a feature, suggesting optimal order times for plane parts.</li><li>- Explored strategies to align technical specifications with business requirements, ensuring effective solutions.</li></ul>	
<b>Ramathibodi Pitching Challenge (RPC) Healthcare Innovation</b>	Jun. 2021
<ul style="list-style-type: none"><li>- Collected and analysed data on modern health issues to create an evidence-based solutions.</li><li>- Assisted 2 team members with complex data analysis, increasing overall project insights.</li><li>- Designed and devised an innovative solution aimed at advancing healthcare in Thailand.</li></ul>	
<b>Tiger Global Case Competition</b>	Aug. 2021
<ul style="list-style-type: none"><li>- Led a 6-member team and managed intricate task assignments by team objectives.</li><li>- Conducted comprehensive research to evaluate and recommend high-value acquisition targets for Renesas.</li><li>- Addressed and resolved key issues with semiconductor manufacturers to streamline operations.</li><li>- Product research and evaluations over 20 companies to support strategic decisions.</li><li>- Analysed and categorized data on potential acquisition targets to determine its strategic importance.</li></ul>	
<b>Innovators for Sustainability Competition</b>	Apr. 2021
<ul style="list-style-type: none"><li>- Group leader with 5 other members, discussing on sustainable solution and qualified for top 5 candidate.</li><li>- Lead a development and implementation on solving waste and how it can be treated using innovative ideas.</li><li>- Analyse solutions to waste management and discuss on cost and executing solution.</li></ul>	
<b>Start-Up Club Founder</b>	2021-2022
<ul style="list-style-type: none"><li>- Organizing events for over 37 start-up club members resulting in over 8 applications made.</li><li>- Each application is proposed to the school to be able to administer a solution.</li><li>- Oversees club’s budget and finance with further solving any issue within the club.</li></ul>	
<b>Base Playhouse Innoprenuer (Building Business with Innovation)</b>	Apr. 2020
<ul style="list-style-type: none"><li>- Awarded first place product pitching regarding farming irrigation system in Thailand.</li><li>- Group leader, distributing jobs equally to each member and communicate on each one’s progress, and combine all research and come up with a solution.</li><li>- Product evaluation and environmental research to connect with SDG goals.</li></ul>	

INTEREST & HOBBIES	CERTIFICATIONS	
Bowling, Travelling, Board Games, Problem Solving Challenges, Airplane Spotting, Cooking, Piano, Biking.	HTML5 – CSS3 – JavaScript	2024
	Python 3	2022
	IELTS	2021
	- Listening 8, Reading 8, Writing 6.5, Speaking 8, Overall - 7.5.	