

# Natadthep Kritsanaviparkporn

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An ambitious Graduate Software Engineer with a strong foundation in website and software development. From my academic experience at the University of Glasgow and participation in a series of hackathons, communication and time management skills. Thanks to my international academic studies, I have developed research skills, critical thinking, and time management skills. Team-working and adaptational skills as well as the capability to work under high-pressure environments were obtained from participating in a series of hackathon events. I have experience in many different coding languages (C/C++, Python, Java, JavaScript, etc.) and I'm looking to further my knowledge by obtaining relevant graduate experience in web development and optimising databases.

## Education and Qualifications

### University of Glasgow

Glasgow, UK

BSc (Hons) Software Engineering

Sep. 2022 – Jul. 2024 (Graduated)

Dual-Degree Program with King Mongkut's Institute of Technology Ladkrabang (KMITL)

Grade: Upper Second Honours, 66%

**Fourth-Year Modules:** Algorithmics II (H), Functional Programming (H), Ind Project (H) (Single), Prof Skills & Issues (H), Cyber Security Fundamentals H, Research Methods and Techniques(M), Constraint Programming (M), Human-Centred Security (M), Secured Software Eng (M).

**Final Year Project:** Investing the Impacts of Attacks on The Onion Router (TOR) Network Using Simulation Testing and Conducting Trade-Off Analysis. Supervised by Dr Gethin Norman.

### Key Project - Development of a web-based Technology Readiness Level (TRL) Calculator application.

- Worked with a team of 5 group members to collaboratively design a web application calculator that sets a level of research for professors to identify their work. Team-working skills and management skills were obtained.
- As a backend development group team member, I modified the backend Django and fixed certain errors that would break the website. Modified the population script to add the TRL calculator requirements. Project score was 97.5%.

### King Mongkut's Institute of Technology Ladkrabang (KMITL)

Bangkok, Thailand

BEng (Hons) Software Engineering

Aug. 2020 – Jul. 2024 (Graduated)

Overall GPA: 3.45

**Recent Modules:** Algorithmics II (H), Functional Programming (H), Ind Project (H) (Single), Prof Skills & Issues (H), Research Methods and Techniques(M), Constraint Programming (M).

### Oxford Summer School

Oxford, UK

Summer School

Jul. 2019 (Graduated)

**Activities/Societies:** Great Debate

**Awards:** Effort Award in Engineering

### Bangkok International Preparatory and Secondary School (Bangkok Prep)

Bangkok, Thailand

Primary, Secondary and Sixth Form School

Aug. 2008 – Jul. 2020 (Graduated)

**Activities/Societies:** Computer Programming Club, Beach Clean-up: Chonburi, SEACSTA Coding Cup:

CODEPOCALYPSE, UKMT Senior Maths Challenge

**Awards:** UKMT Senior Maths Challenge Bronze Award, SEACSTA Coding Cup 3<sup>rd</sup> place.

**A-Levels:** Mathematics (A\*), Physics (A) and Computer Science (A)

## Work Experience

### IBM Thailand Co., Ltd.

Bangkok, Thailand

Software Developer Intern – Internship (Hybrid)

Sep. 2024 – Dec. 2024

- Worked on a loan project for a famous bank in Thailand, where customers would be able to choose loan types and make specific transactions
- Worked on an interceptor for easier data handling in a client server and JSON Web Token Handling, a dispatcher servlet to process multiple server requests, and include Unit-Tests to test classes.
- **Language(s):** Java Spring-Boot, API testing, Cache, Web services, Maven, Unit-Testing.

**Arise By Infinitas Co., Ltd.***Software Engineering Intern – Internship (Hybrid)*

Bangkok, Thailand  
June 2023 – Aug. 2023

- A software development team member, assigned to fix the financial features of a bank app and design flowcharts.
- Learned how to use the SourceTree, Jenkins app, and Line Developer app to deploy a pipeline test checking all errors in the financial app and implementing a back-end request to display the specific website page.
- **Language(s):** Java, Docker, Gitlab, Jenkins, Postman, Line Developer, SourceTree.

**G-Able Co. Ltd.***Software Engineering Intern – Internship (Remote)*

Bangkok, Thailand  
May 2022 – Aug. 2022

- My main responsibility was to work on web development in the back-end team, where I was assigned to solve website errors. Worked on the National Health Security Office (NHSO) website improving database management.
- Using Java and MySQL coding skills, I deployed a website to improve and optimise the user experience for easier organisation, used the Glassfish server for website deployment development, and acquired TestNG coding skills.
- **Language(s):** Java, Typescript, TestNG, Glassfish Server.

## Projects and Awards

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**Multiplayer Code-Editor***Dec. 2022*

- Worked in a group of four members, I was assigned to work on developing the web sockets for the code-editor application. The web sockets would allow multiple users to connect, and sign up for different accounts.
- Using Node.js, helped develop back-end connections of the code-editor, preventing issues occurring within the code, such as duplicating users and code-editor resetting by itself.
- Learned how to use Node.js and prevented web sockets from altering the existing code.
- **Language(s):** JavaScript (Node.js)
- **Website:** <https://github.com/NaralC/Multiplayer-Code-Editor>

**Python Django Personal Website***May 2022*

- Created a Python Django blogging website allowing outside users to register and create blogs.
- Established a back-end connection using Django Python to deploy a URL and implemented and improved the front-end code to create a visually appealing website that will store data for users in the SQLite database.
- Django Python, HTML and CSS coding skills were acquired, as well as creative-thinking skills.
- **Language(s):** Python Django, HTML, CSS, SQLite
- **Website:** <https://github.com/KirtsMark/DjangoProject>

**Build On ASEAN Hackathon 2021 by Amazon Web Services (AWS)***Aug. 2021*

- Investigating the impact of the COVID-19 pandemic on society by creating various technological applications that can be utilised to help improve people's lives. My main responsibility was front-end development, making the application's login screen and sign-up page using Flutter.
- Improved overall user experience. The group obtained a 1<sup>st</sup> Place Runner-Up Award. Acquired Flutter development skills.
- **Language(s):** Flutter

**DEPA Smart Cities Hackathon 2021 by Amazon Web Services (AWS)***May 2021*

- Developed a mobile application with five group members from all over the ASEAN Region, to help patients track the number of nearby recorded positive Covid-19 cases and check for a nearby hospital.
- Optimised and programmed the Python code to utilise the GPS feature on a user's mobile phone and accurately identify the nearby hospitals to the user.
- Won the Popularity Award. Team-working skills were acquired.
- **Language(s):** Python

## Skills & Other Interests

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**Skills:** Confident with Python, Java, HTML, CSS, C, C++, MySQL, and Full-stack Development. Intermediate with Javascript, Typescript, TestNG, Glassfish Server and Mobile development. Basic in Flutter, Golang, and PHP

**Interests:** Playing piano, playing games, model-building, watching football and exercising. We achieved a Merit Award for Grade 4 in Classical Piano from the Australian and New Zealand Cultural Arts (ANZCA) Board 2018.