

Kaung Myat Htay Win

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Education

Oregon State University - Corvallis, OR
Master of Science (Computer Science)

September 2022 - June 2024
GPA: 4.0

Yangon Technological University - Yangon, Myanmar
Bachelor of Engineering (Mechatronics Engineering)

September 2012 - December 2018

Technical Skills

Languages (Proficient):	C/C++, Python, JavaScript
Languages (Functional):	Kotlin, Swift
Web Programming:	HTML, CSS, ReactJS, NodeJS, Docker, Redis, RabbitMQ, AWS
Databases:	MySQL, MongoDB, PostgreSQL
Other:	Linux, OpenCL, CUDA, Git

Work Experience

Research Assistant, *Oregon State University, Corvallis, OR*

June 2023 - June 2024

- Co-authored a **research paper** on Code Equivalence Problem (CE) and collaborated in finding theoretical relationships between CE and other Isomorphism Problems
- Improved Petrank and Roth's reduction from Graph Isomorphism to Code Equivalence to achieve better parameters, and extended it to work for generalized Galois Fields

Teaching Assistant, *Oregon State University, Corvallis, OR*

January 2024 - June 2024

- Provided weekly tutoring and guidance to students during office hours for Analysis of Algorithms (**CS 325**), Error Correcting Codes (**CS 527**), and Parallel Programming (**CS 575**)
- Collaborated with faculty to design exam questions and grading rubrics, and assessed student submissions

Web Developer, *Rangoon Zay, Yangon, Myanmar*

February 2019 - October 2019

- Led a team to develop a dynamic inventory management web application using ReactJS and NodeJS, enhancing user engagement by **30%** through improved front-end performance
- Implemented robust server-side operations using MongoDB and NodeJS, ensuring efficient transactions and delivery status tracking, relevant to developing scalable services and APIs
- Adopted agile software development and GitHub for version control, and wrote reusable code and libraries for better scalability, which resulted in a **25%** decrease in post-launch maintenance efforts

Junior Web Developer, *Say Sayar Gyi, Yangon, Myanmar*

October 2018 - January 2019

- Developed a responsive front-end for a web application using HTML, CSS, and Bootstrap, ensuring optimal user experience by delivering design solutions compatible across both desktop and mobile platforms
- Redesigned data storage with PostgreSQL, and implemented REST APIs utilizing Python and Django, achieving a **40%** increase in data retrieval speeds by optimizing query performance and refining database schemas compared to legacy systems
- Tested and maintained web applications rigorously using MochaJS testing framework and deployed with AWS that contributes a **99%** uptime record and high availability

Publications

[P1] Huck Bennett and Kaung Myat Htay Win. *Relating Code Equivalence to Other Isomorphism Problems*. Preprint, 2024.

Leadership Experience

Student Representative, INTO Oregon State University

April 2023 - May 2023

- Shared knowledge and experience about learning at INTO Oregon State University for international students
- Held information sessions for country representatives of INTO OSU to facilitate international student success