

# Kaung Myat Htay Win

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## Education

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**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

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Languages (Proficient):	Python, JavaScript, C/C++
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

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**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

## Internship Experience

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**Web Developer Intern**, *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 API using Python and Django, achieving a **40%** increase in data retrieval speeds by optimizing query performance and refining database schemas
- Tested and maintained web applications rigorously using MochaJS testing framework and deployed with AWS that contributes a **99%** uptime record and high availability

## Publications

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

## Leadership Experience

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**Student Representative**, INTO Oregon State University

**April 2023 - May 2023**

- Held information sessions for country representatives of INTO OSU to facilitate international student success