

Htut Khine Htay Win

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Education

Master of Science in Computer Science September 2020 - March 2022
University of California - San Diego, La Jolla, CA

Bachelor of Arts in Computer Science September 2012 - May 2016
Cornell College, Mount Vernon, IA
Honors: Frank Armstrong Scholarship

Technical Skills

- Proficient: C++, Python, Docker, Unix
- Familiar: Java, JavaScript, Scala, Redis/Memcached, RabbitMQ/Kafka, NodeJS, Cloud Technologies(GCP, AWS, Azure), Database Technologies(MongoDB, PostgreSQL, MySQL, SQL Server), Machine Learning/Deep Learning frameworks(TensorFlow, PyTorch)

Work Experiences

Software Engineer, *Google LLC, Mountain View, CA* June 2022 - present

- Design and implement Privacy and Security related features for Spanner: Google's Globally Distributed Database
- Participate in design discussions and provide feedback for technical documents

Teaching Assistant, *University of California - San Diego, La Jolla, CA* October 2020 - December 2021

- Served as a teaching assistant for Data Systems for Machine Learning(CSE 291D), Computer Architecture - Software Perspective(CSE 142), Principles of Artificial Intelligence: Probabilistic Reasoning and Decision-Making(CSE 250A)
- Held office hours and led discussion sessions to assist students with lectures and homework
- Graded academic paper reviews and proctored mid-terms and final exams

Research Programmer, *National Center for Supercomputing Applications, Urbana, IL* July 2016 - September 2020

- Improved the image file transfer rate from Chile to Illinois by 11-folds by redesigning the system using object-oriented paradigm
- Built and deployed messaging infrastructure, which translates messages from Data Distribution Service (DDS) to RabbitMQ, to allow communication between two messaging subsystems of the telescope
- Coordinated with other engineering teams to integrate subsystems with the telescope and performed unit and integration testing
- Mentored an intern to develop an application for verifying the integrity of the image files

Co-founder and Chief Technology Officer, *RangoonZay, Yangon, Myanmar* January 2019 - July 2019

- Led a team of four software engineers in developing a mobile-friendly web application that provides faster checkout process and better logistics system for Facebook online shops in Myanmar
- Designed and developed the application using React, NodeJS, MongoDB, Docker and testing framework such as MochaJS
- Deployed common industrial practices such as agile software development, GitHub for repository and version control software guidelines and Trello for planning project tasks and tracking progress

Database Services Assistant, *Cornell College, Mount Vernon, IA* May 2013 - January 2016

- Implemented SQL query snippets to retrieve data from Microsoft SQL Server
- Provided reports relating to campus activities and academics using Business Intelligence Development Studio
- Exported legacy csv files to Microsoft Sharepoint Server using PowerShell scripts

Leadership Experience

Resident Assistant, *Office of Residence Life, Cornell College, Mount Vernon, IA* August 2014 - May 2016

- Created a positive and inclusive environment by assisting residents' needs with academic, personal and social concerns
- Participated in training sessions, and cooperated with other resident assistants and staff