Htut Khine Htay Win

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Education

Master of Science in Computer Science   October 2020 - present
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, Bash
- Familiar: TensorFlow, PyTorch, NodeJS, SQL, Java, Android, R, ROS(Robot Operating System)
- Skills: Software Engineering, System Design, Deep Learning, Machine Learning, Research

Research and Work Experiences

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

- Served as a teaching assistant for Data Systems for Machine Learning(CSE 291D) for fall 2020 and Computer Architecture - Software Perspective(CSE 142) for spring 2021
- Held office hours and lead discussion sessions to help students with lectures and homework
- Graded academic paper reviews and proctored mid-terms and final exam

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

- Designed and implemented distributed file transfer application to transfer data from Chile to Illinois for Vera C. Rubin Observatory
- Wrote application programming interfaces to translate messages across different messaging server protocols (from DDS to RabbitMQ)
- Participated in system integration activities across various engineering teams to commission the Auxiliary Telescope and the main Telescope

Research Intern, *University of Illinois, Urbana, IL*   July 2019 - January 2020

- Implemented Holistically Nested Edge Detection algorithm(HED) for detecting boundaries of crop fields from satellite images
- Experimented with various Deep Learning techniques such as VGGNet, ResNet to improve the accuracy of state of the art boundary detection algorithms in Geographic Information System(GIS)

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

- Designed a mobile-friendly web application to develop an e-commerce platform to help facebook online shops in Myanmar with faster checkout process and better logistics system
- Supervised a lean IT team to support software stack and technology infrastructure
- Explored and experimented latest technology trends and frameworks such as React, containerization, machine learning and data analytics frameworks to better suit our application
- Deployed positive and inclusive team culture, agile software development, repository and version control software guidelines and project management software for planning and tracking progress

Summer Research Assistant, *Carnegie Mellon University, Pittsburgh, PA*   May 2015 - August 2015

- Posed and explored two hypotheses relating to variability in configuration options and bug prediction
- Collected data and analyzed combinations of configuration options in Linux Kernel
- Utilized metrics such as number of ifdef lines and that of vulnerable functions in C files to find correlations between variability induced bugs and configuration options