DUNG HOANG LE

Pullman, WA 99163 – (210) 649 8664 – dung.h.le@wsu.edu
lehoangdung2911 DungLe2911

EDUCATION

Washington State University – *Pullman, Washington* Fall 2021
Bachelor of Science, **Computer Science** GPA: 3.29

EXPERIENCES

Research and Development Cyber Security Intern Jun – Aug 2019

SmartEZ – Online Bank Web/Mobile Application

- Set up servers on AWS, installed and configured web services on servers such as Elastic and Zabbix
- Demonstrated cyber-attack and defend on virtual machines using tools provided by Kali Linux OS
- Researched Firewalls on Windows, Linux, Windows web applications, and Linux web applications
- Performed administration access recovery on both Linux and Windows

Research Assistant Jan – Dec 2021

HiPDAC – Collaborated with AMD on a machine learning project

- Benchmarked different CNN models under different environment settings such as single/multi-threading, or batch size
- Performed matrix multiplication using existing libraries such as OpenBLAS, BLIS, SpGeMM
- Analyzed results based on inference time and memory usage for optimization
- Set up environment to run the codes that is published on academic papers
- Implemented additional C/C++ code that helps with generating new matrices for the benchmarking the CNN models
- Project and team information can be found at *dingwentao.com*

Teacher Assistant Aug – Dec 2021

Undergraduate Teacher Assistant – Washington State University

- Mentored 17 students for one college semester
- Supervised practical labs for one college semester
- Provided feedback and guidance for students each lab section
- Explained lecture concepts and materials to struggling students

PROJECTS

CS 415 - Big Data Aug – Dec 2020

- Collaborated with 4 other team members
- Set up Jupyter Notebook in Linux environment on AWS server for teams' collaboration
- Created web interface showing available flights from airports to users' choice of destination
- Used Pandasql, Apache Spark and others graph algorithms to make queries based on users' input
- Implemented systems capable of showing all trips from one airport to another that have less than Z stops

CS 360/460 - System Programming in Unix/Linux and Computer Architecture Aug 2020 – May 2021

- Developed shell command line that behaves identically to Linux environment
- Implemented boot loader for virtual ARM motherboard
- Wrote drivers to get user input and to display image on virtual ARM motherboard

CS 421/423 - Senior Design (Capstone) Jan – Dec 2021

- Collaborated with F5 Network company based in Seattle to create Capture The Flag website
- Implemented front-end for User-Interface using ReactJS, Material-UI, and Bootstrap
- Retrieved data from back-end via Restful API to display as webpage elements
- Performed periodical debugging throughout development process
- Deployed page at *ctf.cyberliteracyforall.com* and team information at *www.cyberliteracyforall.com*

CS 489 - Web Development Aug – Dec 2021

- Created web application using ReactJS (class-component and functional component)
- Wrote test cases in TestCafe and Playwright to test user accessibility (both keyboard and mouse interactions)
- Deployed web applications through Heroku
- Stored user information on MongoDB database and retrieved data from back-end database via Restful API
- Managed project development process by utilizing GitHub Kanban board

SKILLS AND TOOLS

- **Languages**: Java, C/C++, Python, HTML, JavaScript, CSS, Bash scripting, SQL
- **Web**: ReactJS, Material-UI, Bootstrap, MongoDB, OAuth, Heroku, jQuery, JSON, Restful API
- **Tools/Software**: AWS, WinSCP, Putty, Eclipse, Visual Studio, Postman, Wireshark

RELEVANT COURSES

- **CS 411 –** Parallel Computing
- **CS 437 –** Introduction to Machine Learning
- **CS 489 –** Web Development
- **CS 415 –** Big Data
- **CS 360/460 –** Linux Operating System and Computer Architecture Programming