**Hein Moe Thu**

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**EDUCATION**

**Chapman University**, Orange CA May 2018

Computer Science B.S., Economics Minor

*Related Courses: Data Structures & Algorithms, Database Management, Data Communication and Networking, Artificial Intelligence, Operating System, Data Science, High Performance Computing, Android App Development*

**SKILLS**

• Java, C#, C/C++, SQL, Haskell, Python, R, HTML, CSS • Linux, Windows

• OpenMP, Pthread, CUDA, Thrust, TensorFlow , Git • Bilingual: Burmese & English

• Visual Studio, R Studio, NetBeans, Android Studio, 3DS Max, Adobe Photoshop

**PROFESSIONAL EXPERIENCE**

**IT Support at Angela Sin Lway Chan MD Inc**, Bell Gardens, CA Summer 2017

* Setting up network environment, troubleshooting, and upgrading all PCs and devices
* Wrote python scripts to automate repetitive tasks.

**Internship at Estate Myanmar**, Yangon, Myanmar Summer 2014

* Management of house-listing SQL server transactions and data structures
* Increased query search speed up to 20% by restructuring relations

**Internship at Asian Petroleum**, Yangon, Myanmar Summer 2013

* Application of visual graphics and UX knowledge to increase website views and clicks
* Increased sales by 10% for Euphony branch

**PROJECTS**

**Photo Mosaic**: (C++, OpenMP) A program that builds a database of images based on their average RGB values and then, uses it along with Canny Edge Detection to modify images into a photo mosaic. [Link](https://thu105.github.io/PhotoMosaic/)

**Crypto Feel**: (Java, XML) An Android application with MVC model utilizing up to 25 threads to scraps information using APIs and perform naïve Sentiment Analysis on related tweets of cryptocurrencies. [Link](https://thu105.github.io/Crypto-Feel/)

**Salem Witch Trial**: (Java) Multi-threaded, console-based online game and chat server that allows multiple clients to concurrently connect and play the game. [Link](https://github.com/khafa100/SalemWitchTrial)

**Game of Life**: (C++) A program containing multiple versions of Game of Life using 2D arrays. Size of the game board can be varied to see how performance of the algorithm scales with linear increase in size.

**One Size Project**: (C#, SQL) A program that takes in sizes of user’s previously owned shirts, calculate the user’s measurements, and recommend sizes for different brands that fits the user perfectly.

**Chapman Textbook Exchange**: (C#, SQL) A relational database system that allows students to insert, search, and trade multiple textbooks in transactions like that of auctions.

**AWARDS, HONORS AND ACTIVITIES**

**Chapman User Experience Society** Mar 2017 – Present

* Student-run organization advocating usability, human-computer interaction, and effective design
  + Sample project: [Nikkei Student Union](https://band-master-howls-81162.netlify.com/#engineering) website

**ASA DataFest** Apr 2017

* Produced heatmaps to visually show correlation between distance travelled and location of international airports in dataset provided by Expedia

**ISM Esteemed Honor Roll & Math Department Award** May 2015

**Gusto Institute of Technology Certificate** Jul 2014

**ISM Community Service** Aug 2014 – May 2015