

KANNIKA ARMSTRONG

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EDUCATION

University of Washington **Tacoma, WA** **Jan. 2021 – Dec. 2022**

Bachelor of Science in Computer Science and Systems.

- GPA: 3.93/4.0, Dean's List
- Relevant Coursework: Data Structures, Algorithms, Cryptography, Database Systems and Design, Operating Systems

Pierce College **Puyallup, WA** **Jan. 2020 – Dec. 2020**

Associate in Arts in Academic Transfer AA DTA, Computer Science.

Chiang Mai University **Chiang Mai, Thailand** **May. 1999 – Mar. 2004**

Bachelor of Science in Physics, minor in Mathematics

PROJECT EXPERIENCE

Cryptographic library and applications | *Java* **Apr. 2022 – Jun. 2022**

- Implemented a library and an application for asymmetric encryption, SHA-3 derived function KMACXOF256.
- Implemented digital signatures and verification at the 256-bit security level, ECDHIES encryption and Schnorr signatures.

Movie Tickets Reservation Systems | *MySQL, PHP, HTML, Bootstrap5, XAMPP* **Apr. 2021 – Jun. 2022**

- Performed the leader role in a team to develop the database design using MySQL.
- Designed ER Diagram and created the relational schema.
- Designed and built the user interface using XAMPP, phpMyAdmin, HTML, PHP, and Bootstrap5.

Trivia Maze Game | *Java, Swing GUI, JUnit, SQLite, Git, GitHub* **Sep. 2021 – Dec. 2021**

- Worked in a team to develop an interactive Java game applet using Swing for UI and JUnit 5 for extensive testing.
- Implemented SQL database using SQLite.
- Used Toggl to track working hours and Pivotal Tracker to plan iterations using Agile methodologies.

Unemployment Analysis Paper | *R* **Apr. 2021 – Jun. 2021**

- Analyzed the unemployment rate in March 2021 in the urban counties is lower than that of the rural county counterparts in Washington State and Oregon State.

WORK EXPERIENCE

Professional Calculus Tutor (Part-time) **Oct. 2020 – Dec. 2021**

- Performed the professional tutor in the Precalculus1,2 and Calculus1,2 classes
- Organized the subject proficiency workshops for the peer tutors.

ADDITIONAL EXPERIENCE AND ACHIEVEMENTS

Meteorologist/Climatologist **May. 2006 – May. 2018**

- Performed Meteorologist and Climatologist positions at the Thai Meteorologist Department in Thailand for 12 years.

Languages And Technologies

Languages: Java, SQL (SQLite and MySQL), C, Python, R, JavaScript, HTML, CSS, PHP, Erlang
Developer Tools: IntelliJ, R Studio, VS Code, MySQL Workbench, Git, GitHub, XAMPP