

KANNIKA ARMSTRONG

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EDUCATION

University of Washington <i>Bachelor of Science in Computer Science and Systems.</i> <ul style="list-style-type: none">GPA: 3.93/4.0, Dean's ListRelevant Coursework: Data Structures, Algorithms, Cryptography, Database Systems and Design, Operating Systems	Tacoma, WA	Jan. 2021 – Dec. 2022
Pierce College <i>Associate in Arts in Academic Transfer AA DTA, Computer Science.</i>	Puyallup, WA	Jan. 2020 – Dec. 2020
Chiang Mai University <i>Bachelor of Science in Physics, minor in Mathematics</i>	Chiang Mai, Thailand	May. 1999 – Mar. 2004

PROJECT EXPERIENCE

Cryptographic library and applications <i>Java</i> <ul style="list-style-type: none">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.	Apr. 2022 – Jun. 2022
Movie Tickets Reservation Systems <i>MySQL, PHP, HTML, Bootstrap5, XAMPP</i> <ul style="list-style-type: none">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.	Apr. 2021 – Jun. 2022
Trivia Maze Game <i>Java, Swing GUI, JUnit, SQLite, Git, GitHub</i> <ul style="list-style-type: none">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.	Sep. 2021 – Dec. 2021
Unemployment Analysis Paper <i>R</i> <ul style="list-style-type: none">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.	Apr. 2021 – Jun. 2021

WORK EXPERIENCE

Professional Calculus Tutor (Part-time) <ul style="list-style-type: none">Performed the professional tutor in the Precalculus1,2 and Calculus1,2 classesOrganized the subject proficiency workshops for the peer tutors.	Oct. 2020 – Dec. 2021
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ADDITIONAL EXPERIENCE AND ACHIEVEMENTS

Meteorologist/Climatologist <ul style="list-style-type: none">Performed Meteorologist and Climatologist positions at the Thai Meteorologist Department in Thailand for 12 years.	May. 2006 – May. 2018
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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