

KANNIKA ARMSTRONG

253-282-8828 | a.kannika80@gmail.com | Kannika's Portfolio
linkedin.com/kannika-armstrong | github.com/A-Kannika

EDUCATION

Bachelor of Science in Computer Science and Systems

December 2022

University of Washington

- **GPA:** 3.94/4.0
- **Relevant Coursework:** Data Structures, Algorithms, Cryptography, Database Systems and Design, Mobile Application Development, Client/Server Programming for Internet Applications, Software Development, Cloud Computing

Associate in Arts in Academic Transfer AA DTA, Computer Science

December 2020

Pierce College

Bachelor of Science in Physics with Minor in Mathematics

March 2004

Chiang Mai University, Thailand

PROJECT EXPERIENCE

TikTalk: Chat and Weather Mobile Application | *Java, JavaScript, Node.js, Android,*

December 2022

RESTful API, PostgreSQL, Postman

- Directed a team of four as a **Scrum Master** to develop a mobile application using **Agile** methodologies (user story, sprint, design pattern, and **object-oriented programming**).
- Engineered the back-end **RESTful API** for the weather data from a third-party API (OpenWeatherMap).
- Designed and implemented the UX/UI of the front-end application.
- Implemented server-side using **JavaScript** and **Node.js**, and **Postman** for **Unit Testing**.

Husky Trivia Maze Game | *Java, Swing GUI, JUnit, SQLite, Git, GitHub*

December 2021

- Coordinated a team of three to develop trivia maze game using **Agile** methodologies (**Pivotal Tracker**).
- Built an interactive Java game applet using Swing for UI and **JUnit5** for extensive testing.
- Implemented the maze generator using the depth-first search traversal algorithm.

Movie Tickets Reservation Systems | *MySQL, PHP, HTML, Bootstrap5, XAMPP*

June 2022

- Led a team of three to develop the database design and system using **Agile** methodologies.
- Produced ER Diagram and developed relational schema to conform to BCNF.
- Designed and built the user interface using XAMPP, phpMyAdmin, HTML, PHP, and Bootstrap5.

Triangle Area Calculator | *Node.js, RESTful API, JavaScript, HTML, CSS, jQuery, Express.js*

August 2022

- Completed the back-end **RESTful API** using **Node.js** and **jQuery**, which contains four microservices associated with a specific route representing a particular functionality.
- Devised front-end dynamic web pages generated in real-time from results of calculations.
- Launched a web service that interacts with and consumes four microservices using Heroku.

WORK EXPERIENCE

Meteorologist

May 2006 – May 2018

Thai Meteorological Department, Bangkok Thailand

- Monitored, analyzed, and interpreted data from radar, satellite imagery, and computer models to conduct climate and seasonal predictions using weather forecasting tools, such as mathematical and computer models.
- Applied knowledge to solve various problems in such areas as pollution, agriculture, water management, and natural disaster management.
- Engaged in professional seminars, conferences, and academic settings to present research.

SKILLS

Languages: Java, JavaScript, HTML, CSS, R, Python, PHP, C++, SQL (MySQL, PostgreSQL, and SQLite)

Developer Tools: IntelliJ, Android Studio, VS Code, MySQL Workbench, Git, Postman, NetBeans, AWS

Frameworks: RESTful API, Node.js, jQuery, Android, JUnit, React

Operating Systems: MacOS, Windows, Ubuntu, Linux

Others: Object-Oriented Programming, Design Patterns, Code Smell, Agile Methodologies, Scrum