KANNIKA ARMSTRONG

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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 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, 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
Operating Systems: MacOS, Windows, Ubuntu, Linux
Others: Object-Oriented Programming, Design Patterns, Code Smell