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 APIs, PostgreSQL, Postman
  - Directed a team of four as a ***Scrum Master*** to develop a mobile application using ***Agile*** methodologies (user story, sprints, design pattern, and ***object-oriented programming***).
  - Engineered the back-end ***RESTful APIs*** 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 GUI*** 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 APIs, JavaScript, HTML, CSS, jQuery, Express.js* **August 2022**
  - Completed the back-end ***RESTful APIs*** 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 the 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 with the team, 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.js
Operating Systems: MacOS, Windows, Ubuntu, Linux
Others: Object-Oriented Programming, Design Patterns, Code Smell, Agile, Scrum, Team-Player