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, Dean's List
- Relevant Coursework: Data Structures, Algorithms, Cryptography, Database Systems and Design, Mobile Development, Client/Server Programming for Internet Applications

Associate in Arts in Academic Transfer AA DTA, Computer Science   **December 2020**
Pierce College

PROJECT EXPERIENCE

TikTalk: Chat and Weather Application | *Java, JavaScript, Node.js, RESTful API, PostgreSQL*
- Directed the scrum master for a team of four to develop chat and weather applications using Agile methodologies and user stories boards.
- Engineered the RESTful API for the weather data from the third-party API.
- Completed a full-stack service for the weather data application.
- Designed the UX/UI of the application.

Husky Trivia Maze Game | *Java, Swing GUI, JUnit, SQLite, Git, GitHub*
- Coordinated a team of three to develop the trivia maze game using Agile methodologies and user stories boards.
- 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*
- Headed a team of three to develop the database design and system using Agile methodologies.
- Produced ER Diagram and created the relational schema.
- Designed and built the user interface using XAMPP, phpMyAdmin, HTML, PHP, and Bootstrap5.

Triangle Area Calculator | *Node.js, RESTful API, JavaScript, HTML, CSS, jQuery*
- Completed the RESTful API using Node.js and jQuery, which contains four microservices associated with a specific route representing a particular functionality.
- Finished and published the web service that interacts with and consumes the four microservices.

Cryptographic library and applications | *Java*
- Worked in a team of two to implement a library and an application for asymmetric encryption, SHA-3 derived function KMACXOF256.
- Completed digital signatures and verification at the 256-bit security level, ECDHIES encryption and Schnorr signatures.

WORK EXPERIENCE

Professional Calculus Tutor (Part-time)   October 2020 – present

SKILLS

Languages: Java, JavaScript, HTML, CSS, Python, R, PHP, SQL (MySQL, PostgreSQL, and SQLite)
Developer Tools: IntelliJ, Android Studio, VS Code, MySQL Workbench, Git, Postman, NetBeans
Frameworks: RESTful API, Node.js, jQuery, Android, JUnit