

# KANNIKA ARMSTRONG

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## EDUCATION

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### 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

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

December 2022

- Directed a team of four as a **Scrum Master** to develop mobile applications using **Agile** methodologies and user stories boards.
- Engineered the back-end **RESTful API** for the weather data from the third-party API.
- Completed a full-stack service for the weather application.
- Designed the UX/UI of the front-end application.

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

December 2021

- Coordinated a team of three to develop the trivia maze game using **Agile** methodologies.
- 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 for the database system.
- Developed the relational schema to make data accurate, consistent, and reliable.
- 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.
- Pioneered front-end dynamic web pages generated in real-time from results of calculations.
- Launched web service that interacts with and consumes the four microservices on Heroku.

## WORK EXPERIENCE

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### Personal Calculus Tutor (Part-time)

January 2021 – December 2022

- Coached students in Precalculus 1, 2 and Calculus 1, 2 to achieve their goal of grade A.

### Professional Calculus Tutor (Part-time)

October 2020 – December 2021

*Pierce College*

- Performed duties as a professional tutor in the Precalculus 1, 2 and Calculus 1, 2 classes.
- Organized subject proficiency workshops for the peer tutors.

## SKILLS

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**Languages:** Java, JavaScript, HTML, CSS, 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, jQuery