# Andy Keobounphan

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## EDUCATION

**Southern Alberta Institute of Technology (SAIT)**          **May 2021 - Aug 2022**

*Information Technology - Software Development, GPA 3.7 / 4.0*

- Selected Courses: Advanced Object-Oriented Programming, Web Application Development, System Analysis & Design, Database Programming & Testing, Security for Software Development.

## SKILLS & INTERESTS

- **Skills:** Java **|** SQL **|** Oracle DBMS **|** JavaScript (ES6+, React, jQuery) **|** Git **|** REST API **|** JSON **|** Eclipse **|** NetBeans **|** IntelliJ **|** JWT Security **|** Fast Learner **|** Critical Thinking **|** Problem Solving **|** Algorithms & Data Structures
- **Interests:** Music (Acoustic guitar and singing) **|** Badminton **|** Photography **|** Meeting new people **|** Cycling **|** Art **|** Reading **|** Podcasts

## ACADEMIC PROJECTS

**Wendy's RV Management Web App**          **June 2022 – Aug 2022**

Full Stack | RESTful API | Java Spring Boot | JavaScript | React.js | HTML/CSS | MySQL | JWT Security

- Developed a website management application for a school Capstone project which involved using JWT (JSON Web Tokens) for Security with React.js and Java Spring Boot frameworks.
- Website functionalities include: User can have their own accounts with password encryption. Renting out spots for RV's, an events page that displays current and future events. A forums page that allows user interactions. A documents page that includes information. All these stored in a database.
- In charge of Security, restricted access to end-users based on roles.
- Helped teammates connect front-end and back-end together, created basic CRUD template in Spring Boot & React.js for teammates to build upon.
- Presented prototype to 40 students, 12 instructor, and Head of faculty which mark the completion of the project.
- Used JPA annotations and Spring Boot Dependency injection to retrieve information from MySQL database.

**Sorting Out Sorting**          **Sep 2021 – Oct 2021**

Java | Object-Oriented Programming

- Design and created an abstract data type (ADT) that represent a three-dimensional geometrical figure to assist in developing an object-oriented model for polygons like cylinder, cone, prism, and pyramid.
- Implemented 6 sorting algorithms to sort polygons which are comparable objects to determine which sort is fastest as size increases for the polygons.
- Created documentation using UML diagram and Javadoc which resulted in easy navigation of the codebase.
- Implemented a runnable JAR file that takes in arguments as to which sorting algorithm you would like to choose and which attribute to compare.

**React.JS**          **May 2022 – Aug 2022**

JavaScript | Node.js | MySQL

- Published 2 blogs on wix.com explaining core concepts of React.js framework.
- Developed a simple CRUD website which connects to a MySQL database. This includes a tutorial video.