

# Aanand Aman

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## EDUCATION

Seneca Polytechnic, Toronto, ON

Aug. 2024

- Advance Diploma in Computer Programming and Analysis, GPA: 3.90 / 4.00
- Relevant Coursework: Data Structures, Algorithms, Python, Software Development using C/C++, Application Development (Java), OOP, Linux, Web Programming for Apps and Services, Software Analysis and Design, Advance Database Services, Cloud Computing for Programmers, MS Cloud Technologies, Mobile App Development-Android/iOS, Oracle PL/SQL

## TECHNICAL SKILLS

**Front-end:** HTML, CSS, Tailwind CSS, Next.js, React.js

**Back-end:** Java, C/C++, C#, OOP, JavaScript, Node.js, Express.js,

**Database:** MongoDB, SQL, PL/SQL,

**Cloud Services:** Amazon Web Services, Microsoft Azure, Docker, Cloudinary

**Version Control and IDEs/Tools:** Git and GitHub, VS Code, Visual Studio Community, Eclipse, Android Studio, Scene Builder, Visual Paradigm, MS Office

## PROJECTS

### Parking Management Application

Aug 2024

- Developed a multi-threaded Java server for a comprehensive parking management application.
- Engineered efficient SQL data structures to manage and store guest and vehicle details, ensuring data accuracy and easy retrieval.
- Developed an automated billing system that calculates charges based on parking duration, ensuring transparency and accountability at check-out.
- Implemented admin functions for searching guests by email, phone, or ID, updating vehicle information, and exporting data to CSV for reporting.
- Ensured the application supports concurrent bookings and operations through multi-threading, improving performance

### Hotel Booking Application

April 2024

- Developed a multi-threaded Java server for a comprehensive hotel booking application.
- Designed a dynamic room availability display, providing real-time suggestions for guest numbers and room options.
- Engineered robust data structures in SQL to manage and store guest details efficiently, ensuring accuracy and accessibility of information.
- Developed a billing system generating accurate bills, ensuring transparency and accountability at check-out.
- Implemented admin functions for guest search, discounts, cancellations, and check-outs.
- Ensured the application supports concurrent bookings and operations through multi-threading, improving performance and responsiveness.

### Fragments Microservice

April 2024

- Developed a scalable microservice system for managing text and image data from IoT devices and mobile apps.
- Supported diverse text formats: plain text, CSV, JSON, Markdown, HTML.
- Utilized Docker for containerization, enhancing the portability and deployment of microservice.
- Implemented a CI/CD model for seamless deployment on AWS, ensuring efficient and continuous delivery of updates and new features.

### Library Management Android/iOS App

June 2024

- Developed a cross-platform mobile application using Xamarin, enabling user interaction with a library's book list.
- Implemented a secure login screen with form validation for user authentication, supporting static user credentials.
- Integrated SQLite for data persistence, utilizing the sq\_lite-net-pcl library to prepopulate the database with book records.
- Enabled book borrowing/returning with status updates and validation checks.

### Metropolitan Museum of Art Collection API-Front-End App

April 2023

- Developed a user interface for searching and viewing data, adding favorites, saving search history on the publicly available Metropolitan Museum of Art Collection API.
- Implemented features for adding favorites and saving search history, enhancing user engagement and personalization.
- Developed sign-up and sign-in functionality, restricting access to the app only to registered users.
- Ensured secure authentication and authorization mechanisms to protect user data and maintain privacy.

### Store-Info-Provider

Sept. 2023

- Implemented functionality to retrieve and process data from two distinct files containing store details and ongoing offers.
- Demonstrated proficiency in handling file I/O operations and data manipulation using C++.
- Emphasized Object-Oriented Programming principles.

### Assembly-Line-Simulation

April. 2023

- Created an assembly line simulation project using C++ and OOP.
- Utilized STL algorithms for efficient data handling and processing.
- Ensured robust memory management and dynamic resource allocation.
- Produced comprehensive output displaying order statuses, station details, and overall assembly line operation.