Ammar Patel

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ammarsportfolio.com

EDUCATION

Bachelor of Computer Science (BSc) — Sept. 2022 – Present
University of Victoria — *Victoria, BC*

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, C, C++, HTML/CSS, SQL, R
Frameworks and Libraries: React, AWS, Flask, Linux
Databases: MySQL, PostgreSQL, MongoDB, Spring
Developer Tools: Visual Studio, IntelliJ, Apache Netbeans, Eclipse, Maven, Git, Docker

SELECTED PERSONAL PROJECTS

Transit Bus Tracker — Feb 2024 – Present
www.github.com/amm-ar03/realtime-bustracker — *Victoria, BC*

- Developed a real-time bus tracking system using Python, Flask, JavaScript, HTML and CSS.
- Automated the processing and conversion of GTFS data into JSON format for accurate and up-to-date information of bus location.
- Implemented a user-friendly interface with interactive map using JavaScript and Leaflet.js.
- Utilised Socket.IO for asynchronous data-fetching, ensuring a error-free connection between the frontend and backend.
- Reinforced skills in networking protocols, data processing, automation and real time end-to-end web-app development

Youtube Video Summarizer — Nov 2023 – Present
www.github.com/amm-ar03/youtube-vid-summarizer — *Victoria, BC*

- Developed a YouTube summarizer project using Python and various libraries for audio extraction and processing.
- Integrated OpenAI's speech-to-text Whisper model for accurate transcription of the YouTube video audio.
- Implemented ChatGPT for summarizing transcriptions used fixed prompts, enhancing productivity and user experience.
- Demonstrated proficiency in programming, API Integration and data manipulation for a smooth project experience.

TCP Chat Room — Jul 2023 – Jan 2024
www.github.com/amm-ar03/tcp-groupchat — *Victoria, BC*

- Developed a server-client chatroom in Java using TCP/IP sockets for real-time communication.
- Utilized multi-threading to allow handling of multiple client connections simultaneously and implemented features which allow users to change their display name within the chatroom interface.
- Implemented error handling mechanisms to manage potential issues such as server disconnection, network problems, etc.

SELECTED COLLABORATIVE PROJECTS

Arduino LCD Integration — Oct 2023 – Nov 2023
www.github.com/amm-ar03/arduino-lcd-integration — *Victoria, BC*

- Programmed a Arduino-Mega2560 board in Assembly to output a representation of program state onto a 2x16 LCD display.
- Used 16-bit timers and interrupt handlers to examine the ADC for button pressed, last button pressed and values in the five memory areas every 100 milliseconds.

WORK EXPERIENCE

Cashier/ Meat Dept. Clerk — Oct 2022 – Present
Save On Foods — *Victoria, BC*

- Efficiently processed customer's purchases using POS system, maintaining high level of accuracy and attention to detail.
- Demonstrated excellent customer service skills by addressing customer inquiries, resolving concerns and maintaining a friendly demeanour.
- Developed effective communication skills through interactions with team members and customers to address inquiries and provide assistance.

HONORS AND AWARDS

- **Certificate of Excellent Performance in Discrete Mathematics and Statistics** — 2023 – 2024