# William Nguyen

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## TECHNICAL SKILLS

- Programming Languages: Java | Python | C++ | Javascript | CSS | HTML
- Frameworks&Libraries: Spring Boot | Numpy | React
- Development Tools: Git | Docker | VS code | Pycharm

## TECHNICAL PROJECTS

**HealthAce**                                                                                                    *July 2024*
*Group Project | https://github.com/thanhha1210/cmpt276-group-project*
- Built a full-stack Spring Boot Java application with PostgreSQL for a hospital appointment portal.
- Leveraged OpenAI's ChatGPT 3.5 Turbo API to design and implement an intelligent chatbot, providing real-time, automated support and enhancing patient engagement within the healthcare portal.
- Utilized GitHub for version control, following a structured workflow with commits, pushes, pulls, and collaborative coding practices.
- Applied Agile practices (story points, sprints, iterations) to ensure timely project delivery.

**SoulSearching**                                                                                              *June 2024*
*Personal Project Contributor | https://github.com/ICClaire/SoulSearching*
- Enabled users to create custom playlists from recommendations and post them directly to their Spotify accounts
- Developed the client side of a web application using React to display user data from Spotify, including top tracks and personalized recommendations.
- Implemented Node.js for server-side authentication to handle API token and credential management.
- Utilized Spotify API to fetch user-specific data, such as top songs and playlists, and integrated it into the frontend.

**AutoTabs**                                                                                                *February 2024*
*Personal Project | https://github.com/LucaCoding21/AutoTabs*
- Developed a tool that captures guitar tabs displayed on YouTube videos and consolidates them into a single file, providing a cost-effective alternative to purchasing digital tablatures.
- Created a video processing application using Python and OpenCV to extract frames and analyze regions of interest using structural similarity metrics (SSIM).
- **I**mplemented automated frame saving functionality to detect and respond to significant changes in video content with a dynamic threshold mechanism.

## OTHER WORK EXPERIENCE

*Produce Stocker*                                                                              *July2023 - November 2024*
**Costco Warehouse;** Vancouver, BC
- Maintained a high level of productivity by accurately stocking and organizing produce items during night shifts.
- Worked collaboratively with a diverse team to ensure efficient and organized handling of produce inventory.
- Ensured top-notch product quality and freshness in the produce section, maintaining the highest standards.

## EDUCATION

**Simon Fraser University, Burnaby, BC**                        September 2022 - *Expected Completion: 2026*
- Bachelor of Science, Computer Science
- Awards: Chomilik Foundation ($1000), SFU Open Undergraduate Scholarship (1000$)

## INTERESTS

Learning about computer hardware, gaming, fitness, sports (volleyball, ultimate, badminton), bouldering