**Anay B. Joshi**

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**EDUCATION**

**University of Western Australia (UWA) Perth, WA**

*Bachelor’s in Advanced Computer Science (Honours) Expected Graduation, 2025*

* **Concentrations/Major:** Computing and Data Science
* **GPA (current) & WAM:** 6.938/7(GPA) & 87.375 (WAM)
* **Related Coursework:** Data Structures & Algorithms, Statistical Analysis and Model Regression, Object-Oriented Programming (OOP), Systems Programming, Agile Web Development, Data Science and Data Engineering, Database Warehousing, Computer Networks

**SKILLS**

**Technical Skills:** Java, Python, R, JavaScript, HTML/CSS, SQL, C, Git, Neo4j & Cypher (Graph Database), Django

**Other:**

* Enjoy team collaboration, and am a strong communicator
* Curious nature for how and why things work as they do
* Gracefully onboard feedback, for personal/team improvement
* Strategic and critical thinker (fast learner), love problem solving
* Thrive in a fast-paced development environment

**PROJECTS**

**Perth Explorer Game ([PerthPinpoint](http://www.perthpinpoint.city)) Web App Perth, WA**

*Team Member (part of a team collaboration) Nov 2023 – now*

* PerthPinpoint is a web-app which is akin to [GeoGuessr](https://www.geoguessr.com/), in which players are dropped in some location in Perth and must determine where they are, and/or find locations and landmarks around them.
* The app uses services provided by **Google’s API**, such as their ‘Maps Javascript API’ and their Street View embed API to create an immersive and fun experience for the user.
* The app handles asynchronous events to create a fast and seamless experience for a user.
* The project was built in a small group of 3 members (including myself) as part of a collaborative project
* Technologies Used: HTML, CSS, JavaScript, FastAPI (Python), SQLite3.
* The website is deployed and has **real users** who have submitted meaningful feedback
* Link: [codersforcauses/beginner-2023summer-g4](https://github.com/codersforcauses/beginner-2023summer-g4)

**Discord Bot Perth, WA**

*Personally Developed (Independent) Late 2022–Mid 2023*

* Discord is a social media platform, where users can join voice calls with multiple other people.This discord bot will join the same voice channel (acting as a person) and play music chosen by the other members in the voice call for everyone to hear.
* The bot works using commands which can be typed in the text chat by the people in the group.
* The bot is written in Python and uses the Discord.py library, the program manages a queue of songs (so users can pile up song requests) and does music playback via YouTube. **Uses OOP and extensive asynchronous functionality** so that multiple operations can be done simultaneously.
* **It connects with API’s such as Spotify’s** to allow users to play their own public Spotify playlists and displays. The bot also supports YouTube Music playlists.
* *Link:* [*Anay-Joshi26/axlebot-discord-bot*](https://github.com/Anay-Joshi26/axlebot-discord-bot)

**File Syncroniser (C11 Programming) Perth, WA**

*Personally Developed (Independent) Early 2023- Mid 2023*

* The goal of this project was to design and develop a command-line utility program to synchronise the contents of two or more directories, so that all directories have the same content after the synchronization.
* Utilised C11 programming language features, **POSIX function calls, and the Make utility** for project compilation and execution.
* Employed globbing for wildcard expansion in file patterns, converting them to regular expressions for matching filenames.
* Supported features like **recursive directory processing**, preservation of file modification times and permissions, and selective file synchronization based on patterns.
* Link: [Anay-Joshi26/File-synchroniser](https://github.com/Anay-Joshi26/File-synchroniser)

**Australian Census Data Analysis Perth, WA**

*Team Member (part of a team collaboration) Mid 2023- Late 2023*

* The analysis aimed to investigate the changes in marital status patterns across different age and sex groups in Australia from 1996 to 2021 through **ABS Census data**.
* A scientific report was made with how the data was obtained, assumptions, cleaned and analysed.
* The project gave significant insight into **data cleaning and wrangling, working with raw CSV files** (from ABS) and how to conduct a robust data analysis procedure.
* The data analysis was conducted using Python. Employing imports such as CSV, **Matplotlib and Numpy**.
* The findings were aided visually with plots and graphs using Python’s Matplotlib (pyplot)
* Link: [Anay-Joshi26/ABS-marital-status-analysis](https://github.com/Anay-Joshi26/ABS-marital-status-analysis)