BARNARD FOURIE

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Professional Summary

Final-year Software Engineering student specializing in Python development with a strong appetite for learning new technologies. Enjoy building practical solutions and experimenting with different frameworks, from Flask microservices to React applications. Self-directed learner who adapts quickly to new challenges. Seeking graduate developer role to contribute problem-solving skills while growing alongside experienced engineers.

Projects

Recipe Matching Microservice - GitHub | *Python, Flask, REST API* | *Personal Project*

- Developed a hybrid recipe recommendation system combining local database with Spoonacular API integration
- Optimized search performance from $O(n^3)$ nested loops to $O(n)$ set intersections
- Built RESTful API with proper error handling, input validation, and graceful API fallback

Steam Wishlist Discount Tracker – GitHub | *Python, Flask,* | *Personal Project*

- Built Flask microservice tracking Steam game discounts using multi-API integration
- Designed service layer architecture with error handling and application-level caching
- Handled edge cases: regional pricing, unreleased games, free-to-play titles

C2C E-commerce Platform - GitHub | *PHP, MySQL, HTML, CSS, JavaScript, Bootstrap 5* | *Academic Project*

- Built full-stack marketplace with user authentication and secure transaction processing
- Implemented security features including password hashing, SQL injection prevention, and input validation
- Created admin dashboard for user and product management

Experience

Job Shadowing - IT Team | *AGRISA COMMODITIES (PTY) LTD*

Somerset West, Western Cape | December 2024 & early 2025

- Shadowed IT team to understand enterprise software practices and workflows in agricultural commodities business
- Worked on data reconciliation task matching Excel records to database entries without direct key relationships
- Gained exposure to Python and SQL applications in production environments
- Observed team collaboration and problem-solving approaches in real-world IT operations

Technical Skills

Languages
Python (intermediate) - PHP, SQL, HTML/CSS, C++, JavaScript and Java (foundational)

Frameworks & Tools
Flask, React, Express.js, Bootstrap, Git, Docker, REST API design

Databases & Data Tools
MySQL, SQLite, SQLAlchemy, BigQuery

Education

Bachelor of Computer Science - Software Engineering - Eduvos**,** 2023 - Present
High school diploma - Bellville High School, 2022

Detailed academic results and references can be provided upon request