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EXPERIENCE

Macquarie Group | *Software Engineer L2*   Feb. 2023 – Present

- Improved the reliability and accuracy of curve data in Macquarie Trading System by an average of 15% by developing a curve derivation class that minimises noise in C++.
- Implemented an automated functionality in C++ testing all mappings in the trading system eliminating a 1-hour manual process, and reducing testing time.
- Identified and decommissioned 15 obsolete databases, resulting in annual savings of $50,000; By analysis of usage and relevance of databases using SQL during a platform migration.
- Engineered Java APIs for intent layer using agile methodology, achieving a 20% decrease in customer processing time for home loan applications, increasing retention rates.
- Developed over 50+ Java tests using JUnit and Cucumber to test API functionality and identify bugs, resulting in more robust and error-free application performance.

PricewaterhouseCoopers (PwC) Australia | *Indirect Tax Technology Intern*   Nov. 2021 – Feb. 2022

- Led a team of 6 interns in a competition, achieving a top 4 of 16 teams for our app's UX/UI by presenting our design decisions in front of a panel of judges in OzHarvest.
- Collaborated with other associates preparing tax documentation for clients, ensuring the accuracy of documentation for 20 clients and completing their tax filing.
- Utilized Excel macros and regex to analyse customer relationship data for over 200 customers, identifying insights for decision-making for associates.

SKILLS

Programming:	C/C++ ◆ Python ◆ HTML/CSS ◆ SQL ◆ Java
Frameworks:	React.js ◆ Node.js ◆ Flask ◆ Material UI
Tools:	Git ◆ VS Code ◆ Bazel ◆ Microsoft Office Suite ◆ JetBrains ◆ Gradle ◆ Maven

EDUCATION

University of New South Wales (UNSW) Sydney   Graduated with Distinction, Jan. 2023
Bachelor of Sciences in Computer Science and Bachelor of Economics in Econometrics

- Relevant Courses: OOP in Java, Data Structures & Algorithms, Operating Systems, and Networks.
- Awarded the Graduate Advantage Program (GAP).

PROJECTS

Protask: A Task Management System | *React.JS, CSS, Flask, Python, SQLAlchemy*   GitHub

- Collaborated with 3 students to develop a Python-Flask backend for a task management system, enabling users to search, post, and assign tasks to other users in their network.
- Designed a fast, responsive web app with a seamless UX/UI using React.js and CSS.
- Built a relational database with SQLAlchemy to store user data such as authorisation and tasks.

Gloria Romanus | *Java*   GitHub

- Created a turn-based strategy game in Java where 2 players as factions conquer provinces.
- Used Object Oriented Paradigm to create classes in the backend, such as factions and mechanics.
- Implemented the game's logic, such as win condition, bot behaviour and game progression.

Slackr: Slack Clone | *Javascript, Python, REST API*   GitHub

- Led a team of 4 to develop a backend system for a messaging app, implementing user authorisation, channel functionality, messaging API and storing user data using Python.
- Integrated the backend and frontend for seamless communication between components and UI.