Michael Wang

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EDUCATION

The University of New South Wales
Bachelor of Computer Science with Distinction/Commerce with Distinction   **Mar 2014 – Dec 2020**
- **Weighted Average Mark:** 86.935 (High Distinction)

WORK EXPERIENCE

Software Engineer – Full-time | PUSHAS, Sydney NSW   **Oct 2021 – Present**
- Built the cashouts application within the desired timeframe of 3 months. The app was then demoed to both a limited number of resellers as well as VC investors during the company's seed round.
- Created a NextJS monorepo using yarn workspaces that reduced duplicate code by 20%.
- Developed reusable React UI components using styled-components.
- Decomposed a monolithic lambda into single-purposed functions which allowed for a lambda timeout bug to be identified and debugged.
- Set up CI pipelines using Github Actions. Improved build times by 2x through caching and implementing separate workflows for each workspace in the monorepo.
- Introduced role-based access control by integrating user authorisation between Auth0 and Hasura.
- Designed the entire relational database schema for the consigner platform using ER Diagrams.
- Worked with the COO to scope, estimate and triage user stories for the consigner platform.
- Tech: TypeScript, NextJS, Apollo, Hasura, GraphQL, Auth0, PostgreSQL, AWS Lambda, Docker.

Software Engineer – Part-time | Mixpot, Sydney NSW   **Feb 2021 – Aug 2021**
- Implemented part of a backend API that allows users to create and share restaurant collections.
- Built and tested API endpoints for user login, user profiles and user restaurant collections.
- Created wireframes on Figma to guide the development process.
- Tech: Python, Django REST Framework, Django TestCase, PostgreSQL, GitHub, Jira, Figma.

Software Engineer – Internship | Displayr, Sydney NSW   **Dec 2019 – Apr 2020**
- Implemented an embedded surveys widget with exportable responses.
- Applied functional programming paradigms to reduce the survey exporting code base by 60%.
- Migrated the CI/CD pipeline from Travis CI to Azure Pipelines to improve deploy times by 2x.
- Wrote extensive unit tests that covered all API endpoints.
- Tech: C#, ASP.NET Core, TypeScript, ReactJS, NUnit, Jasmine, Azure Storage, GitHub, Jira, Slack.

PROJECTS

Book Cataloguing Web Application   **Jun 2020 – Aug 2020**
- Developed a Book cataloguing web application (similar to GoodReads) as part of COMP3900: Computer Science Project, which received a High Distinction Grade.
- Was allocated the role of Scrum Master and managed Jira as well as coordinated team stand-ups.
- Tech: Python, Django, ReactJS, JavaScript, CSS.

Dungeon Puzzle Desktop Application   **Jun 2019 – Aug 2019**
- Developed a dungeon puzzle crawling game as part of COMP2511: Object-Oriented Design & Programming, which received a High Distinction Grade.
- Applied the strategy, state, and observer patterns for highly cohesive classes with low coupling.
- Tech: Java, JavaFX, JUnit.

ADDITIONAL

- Top 10 out of 50 teams in the CSESoc Annual Coding Competition 2019.
- Top 10 out of 50 teams in AWS' coding competition, Amazalgo 2019.
- **Programming Languages:** TypeScript, Python, Java, C#, C.
- **Extracurricular:** Sponsorship Director (UNSW BusinessSoc), Careers Director (UNSW LawSoc).
- **Volunteering:** Daffodil Day, Pink Ribbon, City2Surf, Electric Run, Red Shield Appeal, Relay for Life.