

# Andy Chen

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Website:

[https://andy02chen.github.io/  
portfolio\\_site/](https://andy02chen.github.io/portfolio_site/)

## Work Skills

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- Strong teamwork and communication skills from work experience and group projects.
- Strong programming skills
- Experience with software development methodologies such as Agile and Scrum
- Proficiency in software development tools such as Git, GitHub and JIRA
- Knowledge of web development technologies such as HTML, CSS, and JavaScript
- Understanding of database technologies such as SQL and MongoDB
- Ability to design and implement scalable and efficient software systems.
- Excellent problem - solving and analytical skills
- Knowledge of machine learning and artificial intelligence concepts and algorithms
- Time management - ability to prioritize and manage multiple tasks in fast-paced environment and meeting tight deadlines.

## SOFTWARE SKILLS

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- **Python** – starting using in Year 11 of high school.
- **Pandas & Matplotlib** – analysing, filtering data, and displaying results.
- **Java** – Developed 2D games and applications using OOP principles.
- **R** - Able to analyse datasets and plot graphs.
- **C** - Able to use pointers and create and use subprocesses.
- **SQL** - Able to perform queries, and access and manipulate databases/schemas.
- **Agile/ Scrum Methodologies/XP** - Developed applications during Uni using these methodologies
- **GitHub** - Familiar with commands to manage code and changes such as creating branches, pushing, pulling, and merging.
- **CI/CD Practices** - Practised regularly merging branches after completion of a feature. Used Jenkins to ensure that code pushed and merged to the main branch passed all test cases.
- **Data structures** such as Binary Tree, Heap and linked lists.
- **Algorithms** such as Dynamic Programming, Greedy and Divide & Conquer.
- **AI** - Built A\* algorithm from scratch to unscramble messages. Built KNN and Naïve Bayes from scratch.
- **Backend Frameworks** - Have experience with Flask and Django to work with databases and logic.
- **HTML/CSS** – Self-learnt web development and received certification from freeCodeCamp.
- **JavaScript** – Self leant while creating portfolio website and projects.

# Work Experience

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## Maggie's Chinese Kitchen – Kellyville, NSW

### Waiter

11/2021 – 12/2023

- Responsible for creating shifts roster, ensuring that shifts do not conflict with team members' schedules.
- Typing up the weekly payroll, checking that the staff's weekly hours are correct and emailing to the accountant for the creation of payslips.
- Delivering orders safely and taking payments by card and cash, handing the exact change when necessary.
- Packing orders and verifying that the order is fulfilled and ready for delivery or pick up.
- Picking up phone calls and answering any enquiries. Taking orders confidently for pickup and delivery orders, making sure that contact details and address are correct.
- Greeting and seating customers. Taking their order, making suggestions for dietary requirements when required.
- Working with the team and colleague to resolve any conflicts or complaints with customers.

# Projects

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## Uni Projects

### 2D Game in Java

2021

Developed a 2D game in Java by applying knowledge acquired through the semester. Encompassed various object-oriented practices such as abstract classes and interfaces. Scored 94% for the coding portion of this assignment.

Link: <https://github.com/andy02chen/bomberman>

### Graph Traversal (DFS, BFS, A\*, Greedy) from Scratch

2023

#### KNN and NB Classifiers from Scratch

Developed Graph Traversal algorithms and classifiers from scratch for an assignment. Graph traversal was used to decode a message using heuristics.

### Chatbot for 3D Printer Technical Support (Capstone Project)

Semester 2 2023

The objective of this project was to create a tech support bot, that is trained using the companies database of technical support dialogue. Scored 85% for the unit.

### eCommerce Website

2023

The project is to develop an eCommerce site capable of allowing users to browse products, add to shopping cart and take fake payments. It is also capable of securely storing login credentials and has multiple roles and permissions.

Link: [https://github.com/andy02chen/ISYS2160\\_AS2](https://github.com/andy02chen/ISYS2160_AS2)

## **Personal Projects**

**Portfolio Site** - [https://andy02chen.github.io/portfolio\\_site/](https://andy02chen.github.io/portfolio_site/)

I developed this site to improve my web dev skills and to showcase my projects. Consists of mostly HTML + CSS.

**Anime Recommender App** - [https://andy02chen.github.io/portfolio\\_site/proj\\_3.html](https://andy02chen.github.io/portfolio_site/proj_3.html)

Code: <https://github.com/andy02chen/AnimeApp>

Desktop Java App that recommends me anime based on what I have watched before. I developed this project as a Java refresher.

**Spotify Player** - [https://andy02chen.github.io/portfolio\\_site/proj\\_4.html](https://andy02chen.github.io/portfolio_site/proj_4.html)

Code: [https://github.com/andy02chen/spotify\\_player](https://github.com/andy02chen/spotify_player)

Web app that plays music from Spotify with a “truly” random shuffle feature. The goal of this project is to practice my JavaScript.

## **Education**

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### **High School**

Kellyville High School

Graduated 2020

#### **Achievements**

1<sup>st</sup> place Software Design and Development, 1<sup>st</sup> place Information Processes and Technology

### **Bachelor of Computing**

The University of Sydney

2021 – 2023

#### **Achievements**

Distinction in Algorithm Design (80), Introduction to AI (78), Object-Oriented Programming (84), Data Analytics: Learning from Data (75), Information Systems in the Internet Age (81)

High Distinction in Data and Information Management (87), Computing 3 Management (86), Capstone Computer Science Project (85), Informatics: Data and Computation (91)