

Andy Chen

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Website: https://andy02chen.github.io/portfolio_site/

Work Skills

- 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 a fast-paced environment and meeting tight deadlines.

SOFTWARE SKILLS

- **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 learnt while creating my portfolio website and projects.
- **React** – Currently learning. Developing a web app that tracks anime progress and releases.
- **REST API**

Work Experience

Maggie's Chinese Kitchen – Kellyville, NSW

Shift Manager/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

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.

AI Chatbot for 3D Printer Technical Support (Capstone Project) - Python, JavaScript, HTML/CSS, Django Semester 2 2023

The objective of this project was to create a tech support bot that is trained using the company's database of technical support dialogue. Able to answer questions and provide support for customer queries. Prioritises usage of company's terms and products in responses.

eCommerce Website – Python, SQLite, Flask

2023

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

Spotify Player - https://andy02chen.github.io/portfolio_site/proj_4.html

JavaScript, HTML/CSS, Node.js

Code: https://github.com/andy02chen/spotify_player

Personal web app that plays music from Spotify with a “truly” random shuffle feature.

More projects:  Projects

Education

High School

Kellyville High School

Graduated 2020

Achievements

1st place Software Design and Development, 1st 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)