

Hao Wang

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PROFILE

Masters in IT graduate from Monash University and a solid foundation in full-stack development, data-driven applications, and deployment in agile environments. Proficient in Python, SQL, and Git, with experience in RESTful APIs, AWS, and Linux command line operations. With a deep passion for coding and problem-solving, I am eager to begin career as software engineer.

EMPLOYMENT HISTORY

Jun 2024 — Present

Academic Tutor, Monash University

Melbourne

- Taught Algorithms and Programming Foundations in Python to first-year Bachelor and Post Graduate students.
- Taught 100+ students across the semester via online and in-person classes.
- Assisted lecturer in preparing teaching materials, e.g. PowerPoint slides and algorithm challenges.
- Provided consultation classes for students needing extra help; particularly around improving code quality and using tools for version control such as GitHub.

SKILLS: Written and Verbal Communication, Problem Solving, Python, Git, Algorithms and Data Structures

Apr 2024 — Jul 2024

Software Developer, Lead-Group

Remote

- Lead-Group is an organisation managing Lead study labs in Australia to share research data and sell Lead test kits; I worked on building the e-commerce platform (Next.js) for Lead test kit selling.
- Implemented front-end UI features (React.js, Typescript) such as login and registration with user input with validation and data storage (MongoDB).
- Also developed backend features such as sending emails for customer tax receipts (AWS SES).
- All above features were deployed to production.
- Engaged in peer code reviews (GitHub pull request), helped detect and raise issues to continuously improve the platform.
- Assisted project manager in the creation and maintenance of technical documentation, this included a how-to guide on running our software stack locally for new engineers.

SKILLS: NEXT.js, React.js, TypeScript, MongoDB, Git

Oct 2021 — Jan 2022

Kunpeng Devkit Developer Intern, Huawei

Beijing, China

- Worked for Huawei Kunpeng Devkit Project, wrote assembly language code in accordance with company coding standards to translate commands such as mathematical operations from Linux to CentOS.
- Worked extensively with the Linux command line.
- Participated in daily stand-up meetings and authored weekly progress reports, including issues and current project improvement recommendations for the project manager.
- Assisted the project manager in the maintenance of technical documentation.

SKILLS: Git, Linux Command Line

Feb 2023 — Apr 2024

Customer Service Crew Member, McDonald's

Melbourne

- Cooperated with the crew team to provide customers with problem-solving and high-quality food.
- Worked in a high-pressure environment especially during peak hours, serving up to 200 customers perhour.

SKILLS: Teamwork, Customer Service, Problem Solving

Project Experience

Aug 2024 — Oct 2024

Full-Stack app “Healthy Pregnancy”

Monash University

- “Healthy Pregnancy” is a Monash University Project aiming at making migrant pregnant women aware of pregnancy risks. My team built a web app educates users about pregnancy risks through textual and visualised content while collecting cultural background information to analyse risks and provide personalised recommendations on food intake, exercise, and medical care.
- As the full-stack developer, I collaborated with a team that included a data scientist and a business analyst.
- Developed a responsive web app with React.js (Typescript) based on Figma designed created by our UI/UX designer.

- Developed a RESTful API with Django-Ninja, which enabled data exchange between client and server, and supported full CRUD functionality for application data management using a MySQL database (AWS RDS).
- Backend and frontend were both Dockerised and deployed to AWS EC2, and a load balancer was configured to route traffic to the instance. An SSL certificate was used to secure data in transit and ensure application reliability under high-traffic conditions.
- Managed version control with Git, maintaining documentation standards, and actively participating in code review to ensure code consistency and maintainability.

SKILLS: React.js, Django, MySQL, SQL, Git, AWS, Docker, Typescript, HTML, CSS, Python

Feb 2024 — Jun 2024

AWS Cloud-Based Image Storage and Object Detection App

Monash University

- This application allows users to upload and submit images via a web interface for object detection using a YOLO model and subsequently save results to a database and notify the user if certain input tags were matched.
- Implemented serverless API using AWS Lambda functions to handle backend operations, e.g. object detection by YOLO, and data processing through S3 bucket and DynamoDB and API Gateway to expose IT services to the public.
- Used S3 buckets for secure image storage and management.
- Integrated AWS Cognito for user authentication and management.
- Utilized DynamoDB for scalable and fast data storage, containing all information of images including detected objects and use record.
- Set up SNS to send automated email notifications to users while the special objects have been detected in the input image.
- Developed front-end with jQuery (HTML, CSS, JavaScript) to allow users' image input and account registration and login.

EDUCATION

Feb 2023 — Present	<div><div>Master of Information Technology, Monash University</div><div>Melbourne</div></div> <ul style="list-style-type: none">• Majoring in software engineering• Currently holding high distinction level grade• Main Courses: Algorithms and programming foundations in Python, Programming foundations in Java, Database technology, Computer architecture and networks, Project management, Internet applications development, Cloud computing and security, Mobile and distribution computing systems, Software engineering.
Aug 2018 — Jun 2022	<div><div>Bachelor of Computer Science, Beijing Jiaotong University</div><div>Beijing, China</div></div> <ul style="list-style-type: none">• Main Courses: C programming, Data structure, Algorithms design and analysis, Machine Learning, Artificial intelligence, Operative system.