

THOMAS HE

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Portfolio Website: ccd Duck-portfolio.vercel.app/

ABOUT MYSELF

I am a Master of IT graduate at the University of Melbourne specializing in Artificial Intelligence. My academic experience is oriented in AI, with a tool stack that includes Python for data analysis, machine learning, and deep learning libraries which will be fully demonstrated in the skills section. My projects cover popular AI fields from Computer Vision to Natural Language Processing where I worked with State-of-the-Art LLMs and performed various tasks including fine-tuning, prompting and retrieval augmented generation.

On the other hand, my hands-on working experience is mainly associated with UI/UX design, Front-end software development and DevOps where I contributed to the development and deployment of multiple web applications. I can work as a Fullstack developer as I also carry a backend toolkit including MySQL, MongoDB and Java. Overall speaking, I gained experience working in organizations that adopted Agile SDLC and CI/CD practices, allowing me to thrive in fast-paced development cycles. Since I worked as a product owner, I am also competent in engaging with end users to learn about their requirements and using documenting tools including Confluence and Jira. In the field of cloud services, I am currently working towards becoming an Amazon Certified Cloud Practitioner.

Being an AI student myself, I acknowledge the game-changing impact of generative AI to the SD industry, therefore I have been constantly seeking ways that allow me to use AI tools (such as Copilot) solely to improve my productivity while maintaining my ability to solve problems without the assistance of them.

Finally, I perform well under pressure both independently and in team settings. I value and constantly seek feedback from others and do not hesitate to learn new skills if that is needed for my work. I am eager to look for any opportunities that enable me to put my skills to work.

EXPERIENCE

Junior Software Engineer

Jul 2024 - Dec 2024

Queue Solutions: Melbourne, Australia

Main Contributions:

- Participated in a six-month long internship dedicated in developing a web application using TypeScript under React architecture.
- Implemented & Extended multiple functionalities for the project, which involved designing new user interfaces to enhance users' experience.
- Was also responsible for branching and version control.

Product Owner: Algorithms in Action
Coursework Project: Melbourne, Australia

Aug 2023 - Dec 2023

Main Contributions:

- Enhanced and extended functions for an educational web application named Algorithms in Action dedicated in demonstrating algorithms in animation.
- Implemented several components as the clients required using JavaScript.
- Responsible for bridging the clients and the development team and ensuring the work of the development team matches the clients' needs.
- Organized client meetings, summarizing demands from clients and delivering them to team members.
- Led the team's sprint planning and documentation work throughout a 4-month timespan.

EDUCATION

Master of Information Technology (Artificial Intelligence)
The University of Melbourne

Feb 2024 – Jul 2025

- Highlighted learnings: Computer Vision (CV), Natural Language Processing, Hands-on Working Experience in a Dev team.

Batchelor of Science (Computing and Software Systems)
The University of Melbourne

Mar 2021 - Dec 2023

- Highlighted learnings: Computer and programming Basics, Operating Systems, Databases and SQL, Object Oriented Programming, DevOps, Machine Learning Basics.

PROJECTS

Motivational Model Editor

- URL: <https://www.leonsterling.com/aboutmotivationalmodelling>

Algorithms in Action

- URL: <https://dev-aia.vercel.app/>

For more project details and associated tech stack, please visit the Project section of my personal website: ccduck-portfolio.vercel.app/

SKILLS

Technology Stack

- **Front-end Engineering:** CSS, HTML, JavaScript, TypeScript, React, React Native, Node.js, Vite, Next.js, TailwindCSS, Bootstrap, npm, Framer Motion, Three.js
- **Back-end Engineering:** MySQL, MongoDB, Java, Python
- **Data Analysis:** Python, Pandas, Matplotlib, Seaborn, Scikit-Learn
- **Machine Learning:** Pytorch, TensorFlow, Keras, OpenCV2, NLTK, HuggingFace
- **Cloud Services:** AWS IAM, EC2, S3, Lambda, Route53, Amplify
- **DevOps:** Git, Docker, Jenkins, Kubernetes, Jira, Confluence, Slack

Soft Skills

- Strong abilities in collaborating with people of different backgrounds, comfortable in working in pressured environments.
- Familiar with team-based decision-making, confident of speaking in public.
- Experienced with customers engagement, including collecting information for requirements in forms of in-person interviews or virtual surveys.
- Proficient in professional communication in both Mandarin and English.