

# Robert Ji

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## EDUCATION

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<b>University of Sydney</b> <i>Master of Cybersecurity, Major in Cloud Security</i>	<b>Sydney, Australia</b> 02/2023 – 07/2024
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- **WAM: Distinction 75+**
- Achievements: Obtained AWS Certified Solutions Architect (SAA); Got High Distinction in Applied Cybersecurity, Applied Cryptography and Cloud Security

<b>University of Sydney</b> <i>Bachelor of Commerce, Major in Business Analytics &amp; Computer Science</i>	<b>Sydney, Australia</b> 02/2020 – 12/2022
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- **WAM: Credit 70+**
- Achievements: Certificate of Certificated Financial Accountant (CFA) I; Certificate of Financial Risk Management (FRM) I; Mentor of unit, MATH1064, Discrete Mathematics for Computation

## SKILLS

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**Front-End:** HTML, CSS, JavaScript, ReactJS

**Back-End:** Python, Node.js, Java (Spring Boot)

**Databases:** SQL, MongoDB

**Tools:** CDI Git, Docker (Docker Swarm), Bootstrap, AWS platform, Microsoft Azure platform

**Frameworks:** Django, Spring Boot

## RELEVANT EXPERIENCE

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<b>System Engineer (Intern)</b> <i>Strong Compute</i>	<b>Sydney, Australia</b> 08/2022 – 10/2022
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- **Optimization and Configuration** Led the optimization of NCCL, the GPU communication algorithms, improving deep learning training efficiency by 50%, significantly reducing processing times.
- **Technical Leadership** Directed a team of 6, enhancing stakeholder engagement through effective presentations at Strong Compute's AI Day, highlighting key project outcomes and innovations.
- **System Integration** Managed deployment and maintenance of services on remote Linux servers, achieving 99.9% operational uptime and enhancing system integration and compatibility.
- **Backend services** Utilized Java Spring Boot, enhancing application scalability and performance through robust backend architectures and microservices. This led to a more modular and maintainable codebase, significantly reducing downtime and improving response times.

<b>Data Engineer (Intern)</b> <i>Shanghai Wondertek Software. Co., Ltd.</i>	<b>Shanghai, China</b> 02/2021 – 04/2021
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- **Development and Deployment** Developed and deployed a question-answering robot, enhancing user engagement by 30% at interactive kiosks.
- **Database and Web Services Management** Engineered and maintained robust websites and admin systems for enterprise-level data management, handling over 10TB of data daily, ensuring high integrity and accessibility.
- **Load Balancing and User Interface** Implemented web services using Django and Nginx for load balancing, increasing capacity by 40% to support heightened user interaction during peak periods.

## RELEVANT PROJECTS

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**USYD IT Research Project - Swarm Learning in Cancer Histopathology** 02/2024 – 07/2024

- Deployed simulated local servers by means of Docker Swarm and built asynchronous model weight exchange channels in Python codes to implement Peer-to-Peer, decentralised image recognition tasks.
- Utilized PowerBI to visualize the performance of distributed training servers including prevailing Computer Vision Models like traditional CNN, VGG and ResNet.
- Designed and configured novel model aggregation strategies using C++ to improve the effectiveness and accuracy of local servers with insufficient training sets.
- The paper was submitted to AAAI Conference on Artificial Intelligence and was under review, acceptance expected soon.

**EXTRA-CURRICULAR ACTIVITIES**

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Study Australia Industry Experience Program

**Sydney, Australia**

*Practera*

03/2022 – 04/2022

- Achievements: Led a team of 5 members to identify potential customers for Techdyne Sports Wearable Technology in face of the COVID Pandemic Challenges; Got the badge and certification from Practera