

WANG LIAO

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EDUCATION

Bachelor of Computer Science

Sep 2020 – Sep 2023

The University of New South Wales

Sydney, Australia

- CSESoc Development Subcommittee
- IBM × UNSW WIL Project

INDUSTRY EXPERIENCE

Data Analyst Intern (Onsite)

Sep 2022 – Dec 2022

Volvo Cars

Shanghai, China

- Contributed to DIM Warning Project, assisting in developing back-end traffic warning data module with **Java**, **Spring Boot**, **Maven**, **SQL**, **Python**, **JSON**, **XML**, **Git**, and **JIRA**.
- Utilized **SQL** statements to execute **CRUD** operations in an SSH server hosted in **CentOS Linux**.
- Created data processing scripts with **Python** and **OpenPyXL** to generate **80,000+** compliant vehicle data. The generated **Excel** file is **100%** satisfied with required format, style, data type, constraints, etc.
- Developed legal web crawler scripts using **Python**, **Requests** to extract and store latitude and longitude of cities in China into a **JSON** format file, developed **Java** methods to generate precise random coordinates.
- Documented detected issues and refined solutions on **Confluence** using **Markdown**.

Analytical Validation Engineer Intern (Onsite)

Aug 2022 – Dec 2022

Volvo Cars

Shanghai, China

- Participated in PDS Product Navigation Project. Designed and developed **166** automation tests for In-House AutoNavi Map with **Python**, **Appium**, **Robot Framework**, **ADB**, **OpenCV**, **Git**, **Gerriit**, and **JIRA**.
- Developed an image recognition script with **Python**, **OpenCV** to identify different reachable range shapes.
- Responsible for internal ordering business, contacted colleagues from Sweden and Indonesia offices.
- Updated embedded entertainment system on experimental vehicles by manipulating flashing software.

Quality Assurance Engineer Intern (Hybrid)

Feb 2022 – May 2022

QAD

Shanghai, China

- Participated in CM Service Project. Designed and developed automation/manual tests under an extremely large code base with **Python**, **Selenium**, **SVN**, **One Page Object** pattern, **Unittest**, and **JIRA**.
- Developed **Python** methods based on requirements, added page objects using **One Page Object** pattern.
- Optimized the testing process by conducting root cause analysis to drive continuous improvement.
- Maintained comprehensive documentation of issues identified during the testing process using **Markdown**.

RELEVANT EXPERIENCE

Project Training Lead (Onsite)

Feb 2023 – Present

UNSW Computer Science and Engineering Society

Sydney, Australia

- Led a team of trainees to develop a full-stack **MERN** project using **Express.js**, **React**, and **MongoDB**.
- Designed project management structure, utilizing **GitLab** for version control and **JIRA** for collaboration.
- Held regular meetings, actively engaged in project development and workshops alongside trainees.
- Utilized **AWS** to aid in the deployment of the project and provide hands-on tutorials to trainees.

Academic Tutor - Computer Science (Onsite)

Feb 2023 – Present

*Warrane College UNSW**Sydney, Australia*

- Led and organized weekly tutorials for Computer Science undergraduates, including COMP1511 Programming Fundamentals, COMP1531 Software Engineering, and COMP2511 Object-Oriented Design & Programming.
- Provided one-on-one instructions for 1 extra hour to improve the students understanding.

Consultant - Work Placement (Onsite)

Jan 2023 – Feb 2023

*IBM x UNSW WIL**Sydney, Australia*

- Collaborated with an interdisciplinary team to create a "Grad Life @IBM" video and mentoring handbook.
- Developed web crawler scripts with **Python**, **Beautiful Soup** library to scrape **3,000+** comments from graduate programs of **4** industry-leading companies, as the foundation for data analysis and visualization.
- Created questionnaire surveys via Qualtrics to **80+** students and interviewed **10+** graduates/interns/full-time employees from top technology and consulting companies, to collect valuable data.
- Received good feedback from final verbal **presentation** to IBM leaders, Country HR Leader, Client Engineering team & Manager A/NZ, Talent Acquisition team & Manager A/NZ.

CERTIFICATION**AWS Certified Cloud Practitioner**

Feb 2023 – Feb 2026

Amazon Web Services (AWS)

- Candidate Score: 911/1000

TECHNICAL SKILLS**Languages:** Python, Java, TypeScript, C/C++, SQL, HTML/CSS, JavaScript, Shell Script**Frameworks:** Django, Flask, Express.js, React.js, Robot Framework, JUnit, Unittest, Catch2**Developer Tools:** AWS, Linux, Git, Docker, Selenium, Appium, Postman, ADB, MySQL, MongoDB**Version Control:** Git, SVN, GitLab, GitHub, Gerrit**Project Management:** JIRA, Confluence, SharePoint, Agile (Scrum)**REFEREES**

- Alex Perrottet, Dean, Warrane College UNSW
- David Provest, A/NZ Client Engineering Leader (Manager), IBM
- Daniel Yang, Intelligent Cockpit Team Manager, Volvo Cars
- Lubin Shen, ConX Cloud Team Product Owner, Volvo Cars
- Lihui Ge, Senior Software QA Engineer, QAD

Further contact details can be provided upon request