# Zhaoyan (Ian) Cong

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## Summary

ANU Computing student with experience in crafting clean, scalable code that powers business applications. Proficient in various technologies, including extensive expertise in AWS services, I excel in building and deploying responsive, high-quality applications in cloud environments. Skilled in collaborating with stakeholders within Agile/Scrum frameworks, I am committed to leveraging my technical skills on challenging development projects, continuously driving innovation and efficiency.

## Skills

- **Front End**: TypeScript, JavaScript ES6/ES7/ES8, React JS, Redux JS, HTML5, CSS3, SASS, Tailwind CSS, Responsive Design
- **Back End**: Node.js, Next.js, Express.js, Winston.js, CORS, GraphQL, Django, JAVA SE 17
- **Machine Learning**: PyTorch, TensorFlow, Scikit-learn, imbalanced-learn, XGBoost, CatBoost, NLTK, Gensim, Keras
- **Cloud Services**: AWS Lambda, AWS API Gateway, AWS CloudFront, AWS CloudFormation, AWS Cognito, AWS S3, AWS EC2, AWS ECS, AWS Route 53, AWS SQS, AWS SNS, AWS SageMaker
- **Database**: MongoDB, DynamoDB, MySQL, PostgreSQL
- **Architectures**: Service Oriented Architecture (SOA), Object-Oriented Architecture (OOA), RESTful APIs, Microservices
- **Development Tools & Platforms**: Jira, BitBucket, Postman, GitHub, GitLab, Trello
- **DevOps**: Docker, Jenkins
- **Methodologies**: Agile, Scrum, Kanban, Test Driven Development, Behaviour Driven Development

## Education

**Australian National University**                                                      **Canberra, Australia**

*Master of Computing (Specialising in Data Science)*                          2023.2 - 2024.12 (Expected)
- GPA: 5.88/7.00, Distinction Average
- Relevant Coursework: Structured Programming, Document Analysis, Relational Databases, Software Construction, Data Mining, Artificial Intelligence

*Bachelor of International Relations & Bachelor of Economics*                          2018.2 - 2022.12
- GPA: 6.59/7.00, Distinction Average (Top 5%)
- Honours: Dean's Letter of Commendation, Kate North Prize

## Work Experience

**Qixin Co Pty Ltd**                                                                    **Canberra, Australia**

*Full Stack Developer*                                                                      2024.9 – Current
- Responsible for both backend and frontend development using **React** and **Express.js**, with **MongoDB** as the backend database
- Designed and implemented the backend architecture, ensuring optimised performance, scalability, and maintainability across the application
- Developed a caching mechanism to improve the performance and efficiency of data retrieval, reducing server response times
- Designed and managed state management using **Redux** to ensure efficient and consistent data flow between components

**Cyberlark Studio**                                                            **Brisbane, Australia**
*Full Stack Developer*                                                                  2024.3 – 2024.8

- Responsible for the development of serverless backend solutions for a property CRM system using **AWS CDK** and **TypeScript**, enhancing integration and efficiency across AWS services
- Developed a serverless API with **AWS Lambda** and **API Gateway** for efficient CRUD operations and implemented advanced security and scalability features, including **DynamoDB** for scalable storage and **Amazon Cognito** for secure authentication
- Optimised the serverless API performance, achieving a 20% improvement in response times
- Adhered to Test-Driven Development principles, conducting comprehensive unit testing with **Jest** to ensure the code quality and system reliability standards

**Mandala Partners**                                                            **Canberra, Australia**
*Research Assistant*                                                                    2024.2 - 2024.6

- Spearheaded the independent development of an innovative tool leveraging zero-shot learning techniques, designed to conduct in-depth qualitative economic analysis on corporate documentation
- Leveraged **AWS SageMaker** for optimal model performance, achieving a 70% reduction in analysis time and supporting scalable, efficient data processing
- Validated the tool's effectiveness in handling diverse documents from various stock markets with a 72% accuracy rate

**World Bank Group**                                                            **Canberra, Australia**
*Trade-related Climate Change Policy Consultant*                                         2022.3 - 2023.6

- Participated in the creation and ongoing maintenance of a user-friendly policy database aiming to achieve a rapid, fair, and efficient global net-zero transition, employing data validation and quality control measures
- Utilised **Python** for various data management tasks and **PostgreSQL** for database querying, enhancing the efficiency, accessibility, and user-friendly nature of the vast data collected

**Soochow Securities Co., Ltd.**                                                      **Shanghai, China**
*Equity Research Intern*                                                                2020.7 - 2020.10

- Led a team of 5 for weekly market reports, standardised the report-writing procedure, and enhanced data handling efficiency by independently developing a data template in Excel, integrating **Python** scripts to fetch market data from a cloud database automatically, achieving a 95% decrease in report production time

## Project Experience

**Weather App**                                                                        2024.1 - 2024.2

- Developed a responsive weather application leveraging **ReactJS** & **Node.js**, featuring live weather updates, forecasts, air quality indices, and search history functionality within an interface styled with **Tailwind CSS**
- Implemented **RESTful APIs** & **Moment.js** for efficient data fetching and management, utilised **AWS S3** for deployment, ensuring scalable and reliable access to weather data

## Extra-curricular Activities

**ANU Fencing Club**                                                            **Canberra, Australia**
*Vice President & Student Engagement Officer*                                          2023.10 - Current

- Responsible for enhancing student participation and engagement by devising and implementing strategies and initiatives that foster a supportive and vibrant club environment, improving overall club performance

## Certifications

**AWS Certified Developer – Associate**                                                 2024.7 - Current

- Validated my proficiency in writing applications with AWS service APIs, AWS CLI, and SDKs; using containers; and deploying with a CI/CD pipeline

## References

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**Available Upon Request**

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