

# Nan Sang

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## EDUCATION

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**Master of Data Science** Feb 2023 - Dec 2024  
The University of Melbourne

**Bachelor of Computer Science and Technologies** Sep 2018 - Jun 2022  
Beijing University of Civil Engineering and Architecture

## RELEVANT EXPERIENCE

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**Software Development Engineer** Nov 2023 - Mar 2024  
DiDi, Beijing

- Leveraged DiDi's proprietary Go framework, Nvwa, to engineer a geo-fencing system, enhancing accuracy of valid pick-up point validations by 35%
- Diminished passenger 10% wait times by revamping geo-fencing system
- Developed a mock service to simulate discrepancies between DiDi's Australian map and Google Maps, achieving a 25% improvement in navigation accuracy and route optimization

**Test development engineer** Dec 2021 - Mar 2022  
NetEase, Beijing

- Created Shell and Python scripts for automated batch operations, boosting data throughput by 30% through multithreading
- Implemented JMeter and SoapUI for API load testing, reducing response time by 25%
- Conducted daily regression tests, documenting and tracking 50+ bugs in JIRA
- Conducted white-box testing, enhancing ELO model accuracy by 15%
- Managed remote Linux server operations, optimizing SQL queries to enhance data integrity and access speed by 20%

## EXPERIENCE

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**Graduate Students Representatives** Sep 2023 - Feb 2024  
DS<sup>3</sup> - Data Science Student Society, Melbourne

- Coordinated and executed DS Cubed events, collaborating with other executive committees to ensure smooth running of over 15 events annually and advancing participant satisfaction by 20%

**Backend Engineer and Team Lead** Jul 2023 - Sep 2023  
ByteDance Summer School, Remote

- Directed a team of 5, defining and assigning roles to assure project success
- Designed and modified a database to maintain data security, integrity, and efficient querying, resulting in a 40% improvement in query performance
- Constructed business logic for a messaging module, handling up to 10,000 messages per minute
- Debugged and resolved over 30 backend issues to maintain 99.9% platform uptime
- Monitored and honed server performance, reducing response time by 25% under high-concurrency scenarios with up to 5,000 simultaneous users

**Team Member** Oct 2022 - Dec 2022  
NVIDIA 7th Sky Hackathon, Beijing

- Guided collection and annotation of over 1,000 voice data samples
- Deployed NeMo and TAO models to Jetson Nano, modifying deployment for optimal 10% performance
- Executed transfer learning on initial voice model, adjusting hyperparameters overhaul 5% accuracy
- Revamped model speed by 30% and integrated results with image detection component

**President** Mar 2020 - Jun 2022  
Beijing University of Civil Engineering and Architecture, Beijing

- Led maintenance and investigation of campus network, managing 80 students across five departments and overseeing 4-7 projects
- Operated association's public account, creating award-winning Luban Cultural and Creative project, engaged over 1,500 participants and evolved into a national entrepreneurship training initiative
- Analysed and supported campus culture at Beijing University of Civil Engineering and Architecture, contributing to the Internet of Things Green Campus Project, won the Beijing Special Award and boosting energy efficiency by 20%
- Led development and operation of campus forum website, Shadow, expanding student engagement by 35% and achieving 5,000 active users within first year

## TECHNICAL SKILLS

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- Programming Languages: Python, R, Shell, SQL, C
- Web Development: HTML, CSS, JavaScript React
- Tools & Technologies: NeMo, TAO, Jetson Nano, Charles, Postman, LoaderRunner, JMeter, SoapUI, JIRA
- Database Management: Database design, optimization, and Query execution
- Server Management: Remote Linux server
- Testing: Automated and manual testing, API load testing, white-box testing, cross-platform testing (Web, Android, iOS), regression testing
- Data Analysis: Data collection, annotation, performance monitoring, transfer learning, hyperparameter tuning
- Project Management: Task delegation, team leadership, competitive analysis, user needs assessment,

## VOLUNTEER WORK

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- Volunteered with the Australian Red Cross, assisting in transportation and distribution of goods to those in need
- Engaged as a volunteer with the University of Melbourne Student Union (UMSU), enthusiastically offering help and support to fellow students