

# LAN JINGBO

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## EDUCATION

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| <b>National University of Singapore</b><br><b>Bachelor of Computing (with Honour)</b> | <b>Aug 2020 - Present</b> |
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- Major in Computer Science, Minor in Astronomy (Under Department of Physics)
- Specialization in Distributed System & Networking
- Academia: Software Engineering, Computer Networking, Machine Learning, Algorithm Design and Analysis, Data Structure, Computer Organization, Quantitative Reasoning and Data Processing, Statistical Probability.

## WORK EXPERIENCE

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| <b>Mobile Software Developer Intern, MediaCorp Pte Ltd, Singapore</b> | <b>Jan 2023 - Present</b> |
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- Created a user-friendly video play Android mobile app with Kotlin and Android Studio, featuring 220 videos and showcasing smooth functionality on real devices.
- Took part in the updating and management of front-end features for the popular mobile application 8world and CNA as part of a 30-person team.

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| <b>Student Researcher, NUS Environmental Research Institute, Singapore</b> | <b>Jul 2022 - Dec 2022</b> |
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- Conducted research in weather forecasting and air quality analysis, utilizing advanced technologies such as Microsoft Excel, Tensorflow, Pytorch, Pandas, and Random Forest Model to ensure accuracy and efficiency.
- Processed over 20,000 sets of data collected from sensors using pandas tools and uploaded the results to a cloud database, resulting in a 350% improvement in research efficiency.
- Built five more gas data calibration algorithms for atmosphere sensors by developing machine learning optimization algorithm, increased sensor capability by 200%.

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| <b>Software Engineer Intern, ICBC, Hefei, China</b> | <b>May 2021 - Jul 2021</b> |
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- Controlled auto photo taking terminal, located human face by itself under ICBC(Industrial and Commercial Bank of China), shortened time under 5 seconds to catch information.
- Developed machine learning algorithm(CNN Model) via TensorFlow and Pytorch for the information-comparison algorithm, converted over 2000 clients' face information into respective data, simplified information comparison procedures.
- Cooperated with 4 other team members, held meetings every Monday, Wednesday and Friday, got first place overall in the software engineer department.

## PROFESSIONAL EXPERIENCE

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| <b>Back-end Developer, Ref-Let, Singapore</b> | <b>Jan 2023 - Present</b> |
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- Developed a money manager mobile application operating Dart and Flutter, taking responsibility for both front-end and back-end development.
- Designed and implemented a Firebase data structure, integrating over six functions and adding a highly efficient location-based feature to the mobile application.

**Programmer & DevOper, GuestBook, Singapore****Aug 2022 - Nov 2022**

- Designed a hotel manage brown-field application called Guestbook under NUS CS2103T Software Engineering course, worked within a five-person team.
- Implemented Request command feature and corresponding test functions for application, simplified over 15 classes, increased program efficiency
- Facilitated 4 milestones, reviewed 16 out of 60 PRs of team members, used Github milestone tools to monitor project progression, updated team members statuses.

**Programmer, 404 Not Found APP, Singapore****May 2021 - Aug 2021**

- Devised an innovative Android app, "404 Not-Found", to assist users in finding or reporting lost items. Received a project certificate from the NUS in recognition of the app's success.
- Established a database with Firebase and in-putted over 300 client accounts into the cloud system for the "404 Not Found" app. Facilitated user login and utilized Android Oreo for enhanced functionality.
- Created a flow chart to simplify the programming process and assist over 300 individuals in finding lost items through the app.

**SKILLS**

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- Technical skills: Java, Python, Pytorch, TensorFlow, HTML, CSS, JavaScript, FXML, Pandas, Excel
- Technical Knowledge: Software Engineering, Machine Learning, Data Science and Analysis, and Data Processing.
- Language: Chinese (Native), English (Professional working proficiency)

**CO-CURRICULAR ACTIVITIES**

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**Team Manager, NUS Cross-country, Singapore****Feb 2022 - Present**

- Collaborated with 4 EXCO members, managed a 120-person club with high efficiency, organized four large-scale activities with over 800 participants each, received positive feedback and high praise for the quality of the work.

**Associate Leader, Hefei No.1 High School VEX Robotic team, Hefei, Anhui, China****Sep 2018 - Jul 2020**

- Constructed robots using aluminium strips and communicated structure to team members. Repaired errors, identified and resolved 25 errors during the 2019 VEX Worlds competition, resulting in a top-4 ranking among 114 participating teams.