

# YUANHAI TAN

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[iiiiiiiill.github.io](https://iiiiiiiill.github.io)

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## Education

**Bachelor of Science** in Computer Science, Lehigh University

May 2020

Overall GPA 3.53

Major GPA 3.75

Honors:

Dean's List

Spring 2018

Dean's List

Spring 2017

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## Related Experience

**Autonomous RC Car**, Lehigh University

2019-Present

Supervisor: [Mooi Choo Chuah](#) , [Corey Montella](#)

- Based on visual based localization and navigation
- Enable collaboration between cars in a system
- Constructed both software and hardware platform

**Project DōKō**, Senior Design Project, Lehigh University

2019

Advisor: [Mooi Choo Chuah](#) Sponsor: [Ohmni-Labs](#)

- Created general usage robot based on a novice telepresence platform
- Constructed robust navigation system in complex office environment
- Powered by neural-network, ROS, and other state-of-the-art systems

**Game Developer**, Umineko Distribution

2017-Present

- Unity 3D game with cross-platform support
- Won "the Most Fun Award" in LUApps, a school wide software competition
- Hosted on [google store](#) and downloaded by thousands across the globe

**Software and Automation Engineer**, Lehigh Hyperloop, Lehigh University

2017-2018

- Designed and implemented software and sensors arrays used on hyperloop pods
- One of the few teams participated in the final competition hosted by SpaceX
- Maintained the team's [website](#)

**Data Engineer Intern**, Naging Les Information Technology

Summer 2017&Summer2018

- Big data processing with Hadoop and Spark
  - Guarded and maintained high security databases
  - Flattened management system for low latency feedback
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## Teaching Experience

**Lehigh University**, Bethlehem, PA

Autumn 2019

**Teaching Assistant for CSE216**, Department of Computer Science and Engineering

- Mentored student groups for semester long projects
- Held weekly meetings to discuss progress and set goals for teams

**Lehigh University**, Bethlehem, PA

Spring 2019

**Teaching Assistant for CSE202**, Department of Computer Science and Engineering

- Assisted topics related intermediate C and Linux programming
- Graded homework and exams

**Lehigh University**, Bethlehem, PA

2018

**Teaching Assistant for CSE109**, Department of Computer Science and Engineering

- Assisted topics related to basic C and Linux programming
  - Held weekly office hours to answer questions
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## Community Service

**Linux Mint**

Translator, Launchpad Simplified Chinese Translators

2016 - Present

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## Skills

Programming Related

- Java, C, C++, Kotlin, GO, Scala, Ruby, JavaScript
- ROS
- Unity, SolidWorks, Android Studio, etc

Communication

- Professional English, Native Chinese and Elementary Japanese

Leadership

- Elected as team captain for VEX team 8176(A/B/C) for 2 years
  - Founded Umineko Distribution and participated in multiple software competitions
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## Interests

Independent Softwares/ Cyberpunk games and stories/ RC drones/ DIY smart home solutions