

Huang Chengyu

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EDUCATION

National University of Singapore

Aug 2019 - May 2023

Bachelor of Computing, Major in Computer Science

- Second major: Mathematics
- Cumulative Average Point: 4.98/5.0
- Senior Middle 2 Scholarship; Dean's List, School of Computing

Swiss Federal Institute of Technology in Zurich

Feb 2022 - July 2022

- Exchanged at ETH Zurich and took the courses in Machine Learning, 3D Vision, Natural Language Processing, Convex Optimization, German A1.1, and German A1.2
- Represented NUS as exchange ambassador and promoted NUS on campus booth event

PROFESSIONAL EXPERIENCE

Backend Engineer Intern, Global Payment, ByteDance

Sep 2022 - Jan 2023

- Developed a storage platform that maintains bank records with Go and MongoDB, which increased payment transaction success rate by a significant percentage
- Wrote scripts to scan user database in Go, which corrected more than 10000 inconsistent records between original and shard tables, and enhanced the CRUD operation stability

Contributor and Mentor, RepoSense, [\[repository\]](#)

Jan 2021 - Present

- Added new features such as highlighting and binary format support with Vue.js, Pug, and css, which enhanced the user interface for RepoSense, a contribution analysis tool of Git repositories
- Maintained the project as a mentor by reviewing pull requests and making product releases, which ensures it runs smoothly with 10 active developers and more than 1000 active users

Backend Engineer Intern, Global Payment, ByteDance

May 2021 - Aug 2021

- Integrated payment channels for Airwallex and WeChat Pay with RPC framework, which provided 2 new payment options for application such as TouTiao
- Constructed an internal bot that monitors the transactions metrics from a TSDB and sends alerts to the engineers, alleviating the on-call team burden and accelerating error handling process

Developer Intern, Mobile Application, U Wave

May 2020 - Aug 2020

- Developed mobile pages for services such as module calendar and bus timing of U Wave with Flutter and Dart, which incorporated new functionalities into the mobile application
- Collaborated in its campus promotion initiative, which added NUS students into its existing network of more than 10000 users on campus

RESEARCH EXPERIENCE

Honor Year Project Student, NExT++ Research Center, NUS

Mar 2022 - Present

- Designed a global clustering model for conversation disentanglement with contrastive learning and K means, and the model was shown to be more effective than traditional 2-stage models
- Proposed reordering techniques for conversation disentanglement with the help of curriculum learning, which can increase the generalizability of existing models on different dialogues
- Constructed a multi-party response generation pipeline with conversation disentanglement, which can generate accurate and diverse responses in multi-party setting

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Research Intern, NExT++ Research Center, NUS

Oct 2021 - Jan 2022

- Evaluated the response generation baselines on 2 party and multi-party dialogues, which produced a holistic literature review about the existing models
- Adapted a model based on GAN and LSTM for response generation in a multi-party context with the help of relational thinking, which was shown to be effective without topic or thread labels

Researcher, Undergraduate Research Opportunity, NUS

May 2021 - Oct 2021

- Investigated the existing fact checking tools, which revealed the need for more explainability when making a judgement
- Implemented a fact checking system that can generate both veracity prediction and the corresponding explanation when given a claim

PUBLICATIONS

Conference papers

- Chengyu Huang, Zheng Zhang, Hao Fei, and Lizi Liao. "Conversation Disentanglement with Bi-Level Contrastive Learning." *Proceedings of the Findings of the Association for Computational Linguistics: EMNLP 2022*. [\[paper\]](#)
- Suyu Liu, Chengyu Huang, Libo Qin, Hao Fei, Tat-Seng Chua, and Lizi Liao. "Disentangle Multi-party Conversations as Reordering with Curriculum." *The 61st Annual Meeting of the Association for Computational Linguistics*, submitted. [\[paper\]](#)

ACADEMIC SERVICE

Reviewer, Dialogue and Interactive Systems track, EMNLP

July 2022 - Aug 2022

TEACHING EXPERIENCE

Teaching Assistant, School of Computing, NUS

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|-------------------------------------|---------------------|
| • Design and Analysis of Algorithms | Aug 2021 - Nov 2021 |
| • Computer Organization | Jan 2021 - Apr 2021 |
| • Discrete Structures | Aug 2020 - Nov 2021 |
| • Programming Methodology | Aug 2020 - Nov 2020 |

ADDITIONAL INFORMATION

- **Skills:** Java, Python, C programming, PostgreSQL, Go, html, and css
- **Languages:** Chinese and English: Proficient; German: A1.2
- **Interests:** Basketball; Guitar; Drawing; Movies