

# Ruilin Yang

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GITHUB PAGE: <https://github.com/RuilinYang-beta>

## EDUCATION

Oct, 2021 - present    **MSc Information and Communication System, TUHH, Germany**  
Sep, 2018 - Jul, 2021    **BSc Technical Computer Science, University of Twente, the Netherlands**  
- Cum Laude  
- Thesis "Didactic Visualisation for a Searchable Encryption Scheme", 8.6/10  
Sep, 2010 - Jul, 2014    **BSc Economics, University of International Business and Economics, China**

## SKILLS

### Language Skills:

English: C1   |   German: A2   |   Chinese: Native   |   Dutch: A1

### Developer Skills:

- Frontend development (HTML, CSS, JavaScript)
- Backend development (Node.js, Java)
- Data Visualisation (Python, JavaScript)
- Others: Git, Agile Development

## PROJECTS

*Side projects at TU Hamburg:*

### 03/2022    **Lufthansa Technik-IT process distinguisher (100%)**

- A full stack web application to help determine the similarities among processes.
- Keywords: Requirement Engineering, web development, MongoDB, Heroku

*Some of my academic projects at University of Twente:*

### 07/2021    **Didactic Visualisation for a Searchable Encryption Scheme (100%)**

- A research about how visualisation can help student study complex encryption schemes
- Keywords: JavaScript, Cryptography, Education

### 04/2021    **GUI for Parity Game Algorithm Research**

- A GUI for researchers of Parity Game including several classic algorithms built-in
- Keywords: Java, Requirement Engineering, backend development, Agile Development

### 07/2020    **A language interpreter for a pure functional language**

- A language parser and evaluator in Haskell
- Keywords: Haskell, Functional Programming, language parsing

### 06/2020    **AI Snake**

- An intelligent Snake program in Prolog
- Keywords: Prolog, Logic Programming, Artificial Intelligence

### 04/2020    **Graph Isomorphism and Automorphism (80%)**

- Efficient algorithms to compute graph isomorphism and automorphism
- Keywords: Python, Graph Theory, Color Refinement, Automata, Abstract Algebra

### 07/2019    **Dashboard for a logistic software company**

- An information system that retrieve, store, aggregate, and visualise data by user's choice
- Keywords: Java, REST API, web development, JDBC, Agile Development

### 02/2019    **Spectrangle board game**

- A board game software that supports online/offline mode for single/multiple users
- Keywords: Java, MVC pattern, concurrency, network

## EXTRACURRICULAR ACTIVITIES

*At TU Hamburg:*

- 10/2021 - 03/2022 Fish for Experience, Lufthansa Technik & TUHH career center**  
 - defining a framework to distinguish standard/non-standard process at Lufthansa Technik to help cut its IT maintenance cost

*At University of Twente:*

- 10/2019 - 03/2020 Teaching Assistant, University of Twente**  
 - TA for module "Pearls of Computer Science" and "Software Systems"

*At University of International Business and Economics:*

- 03/2012 - 09/2013 Teaching Assistant, University of International Business and Economics**  
 - Tutor and member of Teaching Management team  
 - Tailored and delivered weekly English workshops for 50+ students
- 01/2012 - 02/2012 Economics Fieldwork , University of International Business and Economics**  
 - Interviewed local residents of 4 economic reform hotspot across China
- 06/2011 - 07/2011 AIESEC Exchange program to Ateneo de Manila University, Philippines**  
 - Rural economic studies

## WORKING EXPERIENCE

- 12/2017 - 07/2018 English Tutor/Community Coordinator | Mint Reading, Chengdu, China**  
 - English tutoring online, responsible for 2800+ adult learners  
 - Organized online activities to motivate and entertain students
- 11/2017 (Took a break)**
- 10/2015 - 10/2017 Public Servant | Committee of Economic Development and Social Reform, municipal government of Pu'er, China**  
 - Produced monthly economic report and other government document
- 07/2015 - 09/2015 (Took a break)**
- 06/2014 - 06/2015 Product Assistant | Dijiuke, Shenzhen, China (a skill-share startup)**  
 - Define user profile qualitatively based on existing user  
 - Organize off-line workshops