

# YIPING DENG | RESUME

Full stack Web Developer / Mathematician / AWS certified Solution Architect

**Status:** B.S Computer Science, graduating in June, 2020

**Address:** P.O 182 College Ring 7, 28759 Bremen, Germany

**Fields:** Service Oriented Architecture, Machine Learning, Cyber Security, Formal verification

**Blog:** <https://loudcoder.com>

**Language:** English (bilingual), Chinese (native), German, Spanish

**Github:** <https://github.com/DengYiping>

**Skills:** Java, Scala, Python, C++, Javascript, React.js, Kubernetes, Spring Boot, MariaDB, AWS

**E-mail:** [y.deng@jacobs-university.de](mailto:y.deng@jacobs-university.de)

**Activities:** Baking, Half-marathon, Reverse Engineering, Software Fuzzing, Hardware Hacking

**Mobile:** +49 162 683 6614

## Experiences

### Software Development Intern - Amazon

2019/6-2019/8

- Large scale retail item localization service design, development and DevOps (average 50 millions entries/day).
- Improving UI/UX on legacy system, migrating legacy system onto native AWS and improve scalability.

### Software Engineer (part time) - Ubimax GmbH

2018/9 - 2019/5

- Machine Learning training micro-service development, Kubernetes deployment, Azure cloud development.
- Full-stack development using AngularJS, React.js and Spring MVC, log management system development.

### Research Assistant - Marine and Robotics System - Jacobs University Bremen

2019/2 - 2019/5

- Autonomous driving algorithms research based on Dockietown, preparing for AI driving olympics, ICRA 2019.
- Marine robotics research under Prof. Francesco Maurelli, underwater navigation algorithm design.

### Teaching Assistant - Object Oriented Programming - Jacobs University Bremen

2018/10 - 2018/12

- Grading programming homework in C++, grading written exams, giving tutorials, in-class assistant.
- Implemented C++ homework autograding and similarity check system in Python.

### Machine Learning Engineer Intern - Ubimax GmbH

2018/6 - 2018/8

- Built image classifier training/deploying/evaluating system on AR devices(Google Glass Enterprise/ Vuzix M300).
- Full-stack development, machine learning research focusing on image classification/object detection.

### Hilbert 10th Research - Jacobs University Bremen Mathematics Department

2017/10 - 2018/5

- Guided research, Hilbert Tenth Problem proof formalization using Isabelle, proved DPRM theorem.
- Co-authoring of paper and presentation: [Hilbert Meets Isabelle](#) - Federated Logic Conference 2018.

### Google Code-in 2017 Mentor - Google Code-in

2017/11 - 2018/1

- Guided middle school students contributing in open source project.
- Responsible for monitoring, reviewing and fixing the code contributed by students.

### Cyber Security System Engineer Intern - Tsinghua University Software Security Lab

2016/6 - 2016/9

- Implemented code clone detection system (binary code clone detection based on AC automata).
- Implemented database security management system and crawler for GitHub in Scala (both based on Akka).

## Education

### B.S. Computer Science, Class of 2020 - Jacobs University Bremen

2017/9 - PRESENT

- Top 5%, founder of Offensive Cyber Club, selected for autonomous driving research under Prof. Maurelli.
- Finished for mathematics research regarding Hilbert 10th problem research with paper in top conference.

## Side Projects

### TantanRank - Facial image classifier

2017/7 - 2017/9

- Built a social network picture collector and uses TensorFlow CNN neural network to classify user pictures.
- <https://github.com/DengYiping/TantanRank>.

### loklak - Twitter distributed crawler / search engine

2015/11 - Present

- Bug fix in the Java code base, helped students in GSoC/ Google Code-in for open source contribution.
- Shifted the crawler to a generic crawler that collects messages from Github, Youtube and etc.