

# YIPING DENG | RESUME

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

**Fields:** Microservice, Machine Learning, Cyber Security, Cloud Architect

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

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

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

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## Experiences

Software Development Intern - Amazon, Luxembourg

2019/06 - 2019/08

- Retail localization service design and development on **AWS**, which handles around **50 million items** per day.
- Migrating legacy **GWT** frontend to **Angular 7**, building new RESTful endpoint using **RestEasy** and **Guice**.
- Fixing flaky integration tests in the **CI/CD** pipelines, handling daily operation tasks and configuration changes.
- Collecting source language statistics, design translation rejection system and experiment on **AWS SageMaker**.

Software Engineer (Part time) - Ubimax GmbH, Bremen, Germany

2018/09 - 2019/05

- Machine Learning image collection, tagging and training platform development using **Kubernetes** on **Azure**.
- Web development using **AngularJS**, **React.js** and **Spring Boot**, implementing log management system.

Marine and Robotics System Research - Jacobs University Bremen, Germany

2019/02 - 2019/05

- Autonomous driving algorithms research based on **Dockietown**, preparing for AI driving olympics, ICRA 2019.
- Using **ROS** and **TensorFlow** to implement lane following algorithms, camera-based localization using **AprilTag**.

OOP Teaching Assistant - Jacobs University Bremen, Germany

2018/09 - 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, Bremen, Germany

2018/06 - 2018/08

- Training and deploying **TensorFlow** models to AR devices(**Google Glass Enterprise/ Vuzix M300**).
- Using **Azure Custom Vision** to train **SqueezeNet** and **YOLO** for image classification and object recognition.

Hilbert 10th Research - Jacobs University Bremen, Germany

2017/10 - 2018/05

- 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, Remote

2017/11 - 2018/01

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

Securify Engineer Intern - Tsinghua University Software Security Lab, Beijing, China

2016/06 - 2016/09

- Implemented code clone detection system using **Spark**, **HDFS** based on AC automata string match.
- Implemented database security audit system, implement a crawler for GitHub in **Scala** and **Akka**.

## Education

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

2017/09 - 2020/06

- **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

2017/07 - 2017/09

- 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 - 2018/01

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