

YIPING DENG | RESUME

Full stack Web Developer / Penetration Tester / Mathematician

Status: B.S Computer Science, Class of 2020, with 1.5 GPA (German standard)

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

Fields: Software Engineering, Mathematics, Machine Learning, Cyber Security

Website: <http://ydeng.me>

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

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

Skills: C++, Scala, Python, Java, Javascript, React.js, Angular, Spring Boot, AWS

E-mail: y.deng@jacobs-university.de

Activities: Baking, long distance running, reverse engineering, software fuzzing, hardware hacking

Mobile: +49 162 683 6614

Experiences

Software Development Engineer Intern - Amazon

2019/6 - PRESENT

- Large scale service oriented architecture 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 (Working Student) - 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(click to see): [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

- Extensive courses in Haskell, C and C++ programming, machine learning, and algorithms and data structures.
- Selected for Hilbert 10th problem research among top students (automatic theorem proving).

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.