

Zhiyu An

San Francisco Bay Area, United States

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Education

University of California, Berkeley

Berkeley, CA

BACHELOR OF ARTS IN COMPUTER SCIENCE

Summer 2021 - Expected Fall 2022

- Relevant CS courses: Computer Security, Efficient Algorithms, Designing Deep Neural Networks, Machine Structures, Introduction to AI, Data Structures, Program Structures, Optimization Models in Engineering
- Relevant MATH courses: Discrete Math and Probability Theory, Multi-variable Calculus, Introduction to Abstract Algebra

Work Experience

Siemens AG

Beijing, China

INTERN, EDGE COMPUTING AND IT

Aug. 2021 - Dec. 2021

- Initiated an In-Office Automated Guiding Vehicle (AGV) project based on Raspberry Pi 4 with Debian 11 OS, utilizing Robot Operating System (ROS 2) and Tensorflow Lite for SLAM, obstacle bypassing, and automated guiding features. (C, Python, Bash)
- Deployed and calibrated SLAM and 6D posture estimation algorithms for AGV's vision system, using multiple Intel D435 RGB-D cameras and a Li-DAR. (Tensorflow Lite)
- Built fully automated data fetching and uploading pipelines on AGV for system parameters monitoring through cloud-based applications. (Azure)
- Implemented command and data wrappers (OPCUA), connected AGV to Siemens factory IoT network system as an IoT device.

Duolingo Inc.

Beijing, China

CONTRACTOR

Mar. 2021 - Aug. 2021

- Developed a web-spider (Fiddler) for efficient user comment extraction and classification (Tensorflow) from Huawei app store, with fetched comments widely used in social media marketing.
- Reviewed and edited 100+ social influencer articles focusing on social media marketing, ensured 100 percent of all articles satisfy company requirement.
- Guested in Duolingo's official promotional video and two promotional live talks.
- Created and published six articles on Duolingo's official social media account with every article achieved 1000+ views in the initial week.

Teaching Experience

Beijing Aidi High School

Beijing, China

TEACHING ASSISTANT

Mar. 2021 - Dec. 2021

- Developed a scheduling software to help match students and teachers' time-slot preferences, improved scheduling efficiency 10x with stable matching algorithm (Python).
- Served as TA in AP Physics C - Mechanics on calculus-based mechanics for a class of 25 students.
- Dedicated 40+ hours of 1-to-1 tutoring in AP Calculus, Physics, Chemistry, and Computer Science, receiving a wide range of positive reviews from students.
- Presented 12 public talks on college application strategies and student well-being, each had 30+ attendees.

Leadership

Berkeley mini Math Tournament

Berkeley, CA

COLLABORATOR

Apr. 2022

- Supervised scoring and statistics generation of a team of three in a synchronous, one-day remote math contest with 300+ contestants, 100+ teams (BmMT China 2022).
- Generated and reviewed the Chinese translation for more than half of all contest materials with a team of translators.

Skills

Programming Languages	Python with Anaconda, Java, C, Go, Bash, RISC-V, R
Software and Tools	Git, Tensorflow, Docker, \LaTeX
Languages	Chinese, German(Beginner Level)