

Ya-Sin Luo

+886-937992916 luoyasin@gmail.com

3F., No. 85, Ln. 50, Wuguwang N. St., Sanchong Dist., New Taipei City 241, Taiwan (R.O.C.)

EDUCATION

National Cheng Kung University(NCKU) , Tainan, Taiwan	Sept. 2016 – June 2020(exp.)
<ul style="list-style-type: none">• <i>B.S. in Computer Science and Information Engineering(CSIE)</i>• GPA: 3.94/4.3, Major GPA: 4.00/4.3, Last 60 GPA: 4.11/4.3• Honor: Academic Achievement Awards(2017 – 2018 / 2018 – 2019)• Related courses: Computer Vision from Theory to Application, Introduction to Image Processing, Computer Project Design(Robotics Lab), Computing Theory, and Compiler	

AREA OF INTERESTS

Computer Vision, Robotics, Computer Graphics, Web and APP Development, Software Engineering

PROFESSIONAL EXPERIENCES

Undergraduate Research , National Cheng Kung University.	Mar. 2018 – Sept. 2019
<ul style="list-style-type: none">• Worked on <i>Robotic Eye-In-Hand Camera for Select-and-Place Tasks</i>• Integrated visual sub-system and robotic arm sub-system• Developed robot arm that can place wooden digital blocks in order according to handwritten digits recognized by visual sub-system• Method: object detection, visual recognition, deep learning, robot arm control, camera calibration• Advisor: Dr. Jenn-Jier James Lien	
Research and Development Engineer , National Cheng Kung University	Jan. 2018 – Dec. 2018
<ul style="list-style-type: none">• Worked on open-source project, <i>Department of CSIE Website</i>• Conducted research on user experience, including layout, logic flow, and function design• Improved project maintainability by setting coding style rules and using simplified programming language• Developed new labeling system and categories search in news webpage• Framework/Tools: Node.js, Webpack, Pug, SASS, ESLint• Advisor: Dr. Hung-Yu Kao	

LEADERSHIP EXPERIENCES

Team leader/Tutor , National Cheng Kung University	July 2018 – Dec. 2018
<ul style="list-style-type: none">• Managed team in a study group(3 teams, 15 students)• Led team of four members in learning development of a website• Allocated weekly tasks to team members according to skills• Supervised weekly learning progress of team members• Topics: HTML, CSS, JavaScript, Git, workflow, project structure	

EXTRACURRICULAR ACTIVITIES

Tutor , NCKU CSIE Summer Camp for High School Students	July 2017
<ul style="list-style-type: none">• Course: Game Development with Unity Engine: 2D Shooting Game• Developed high school students' ability in programming (C++)• Taught students how to use Unity to build a game	
Host/Member , Cheng Kung Toastmasters Club (an English speech club)	2016 – 2017
Member , NCKU Dance Club	2016 – 2017
Choreographer , the NCKU CSIE department stage performance(over 200 attendances)	Dec. 2016

SELECTED COURSE PROJECTS

Messenger Chatbot(Python)
<ul style="list-style-type: none">• Method: finite state machine, cloud database, web framework• Outcome: A chatbot with activities management and poster maker• Notable Accomplishment: ranked within the top 5 out of 135 students and thus earned the opportunity to present my work to classes
µC Compiler(C)
<ul style="list-style-type: none">• Method: lexical definition, syntactic and semantic definitions, LALR(1) parser• Outcome: A µC Compiler for java assembly code generation• Notable Accomplishment: ranked top out of 135 students

UNIVERSITY SERVICE

Campus tour guide , NCKU Freshmen Camp – Robotic Lab tour (over 35 students)	Sept. 2019
Counselor , NCKU CSIE Summer Camp for high school students (over 100 students)	July 2017

SKILLS & LANGUAGES

- Toolbox/Software: PyTorch, TensorFlow, Keras, Torch, CUDA, OpenCV, Git, Unity
- Programming Languages: C/C++, C#, Python, MATLAB, Java, Verilog, HTML5, JavaScript, SQL
- Languages: Mandarin (native), English (fluent), Hokkien(near native), Hakka(intermediate)