

SONG, Yeon Ji

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EDUCATION

Seoul National University

Dual Masters and PhD in Biointelligence Lab

Seoul, South Korea

Jul 2021 -

The Hong Kong University of Science and Technology

Bachelor of Engineering in Electronic Engineering

Hong Kong

Sep 2017 – May 2021

Dulwich College Suzhou

International Baccalaureate (IB)

The International General Certificate of Secondary Education (IGCSE)

Suzhou, China

2006 - 2017

WORK EXPERIENCE

Seoul National University Biointelligence Lab

Undergraduate Research Intern

Seoul, South Korea

Nov 2020 – Jun 2021

- AI Researcher in Vision and Robotics.
- “Deep RL-based Optimal Path Planning and Obstacle Avoidance for Mobile Robots” KCC2021

Surromind (Seoul National University)

Artificial Intelligence Research Engineer

Seoul, South Korea

Jul 2020 – Oct 2020

- Created a Deep Learning model for Human Pose Estimation based on Detectron2 with R50-FPN and R101-FPN backbone.
- Benchmarked on top AI Platform (AWS, GCP, Azure) to create our own AI Platform.
- Designed and Implemented data preprocessing module for our own AI Platform.

Codecrain Inc.

Full-stack Web Developer

Seoul, South Korea

Jun 2019 – Sep 2019

- Developed frontend web application along with a senior developer using React.js.
- Implemented React.js and Node.js to enhance functionality and user experience.
- Assisted in maintaining database using Node.js, MySQL, and postman.

PROJECTS

HKUST Final Year Project

May 2020 - May 2021

- “Map based Robot Navigation and Path planning with Deep Reinforcement Learning”
- Autonomous navigation and vision servoing model based on ROS V-Rep (Robot simulator)

BundlePort

Chief Technology Officer

Hong Kong

May 2018 - May 2020

- Developed Full-stack web application using Node.js and MySQL.
- Developed on Cloud server using AWS EC2, S3, Elastic Beanstalk, and CloudFront.
- Checkout our website at www.bundleport.com.

Robotics Team (Hong Kong University of Science and Technology)

Software Engineer

Hong Kong

Sep 2018 – Dec 2018

- Participated in 2018 Robotics internal competition as a software sub-team member.
- Built an algorithm that allows a smart car and throwing robot to move and act accordingly.
- Used C programming-based language, and developed software program that uses camera sensor, magnetic sensor, and ultrasonic.

SKILLS

Languages Korean (native), English (fluent), Mandarin (fluent), Cantonese (Beginner)

Technical Skills Python | ROS | SLAM | C++ | JavaScript | SQL | HTML5 & CSS3