

# Huai-Che Chang (Roy)

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## WORK EXPERIENCE

### Yahoo

2022/07 - 2022/18

Software Developer - Intl. frontpage team, *Intern*

- Built the bookmark feature for yahoo articles using React with TypeScript.
- Developed with server side rendering techniques for search engine optimization.
- Detected and labeled representation of articles with BERT-based machine learning model.
- Collaborated with engineers to do bucket testing for migration from PHP to NodeJS.

### American Megatrends (AMI)

2020/10 - 2021/07

Software Developer - web service team, *Full-time*

- Developed REST API endpoints in C language with Rapters and JSON-C for IPMI 2.0.
- Contributed frontend features for BMC dashboard with Backbone, RequireJS in MVC.
- Maintained serial over LAN module and Xterm emulator for system management over IP.
- Cut down module defect by 36% by iterative development with GitLab CI.

### Gigvvy Science

2019/07 - 2019/08

Software Developer - frontend, *Intern*

- Developed a CMS platform with React to simplify peer review process for journals.
- Developed backend with NodeJS, PostgreSQL and Docker with agile methodology.
- Cut down defects by unit testing with Jest and integration testing with 95% coverage.

### National Taiwan University

2018/09 - 2019/07

Robotics research Assistant - AFPC Lab, *Part-time*

- Implemented a dynamic visual compensation system on an eye-in-hand manipulator.
- Accelerated 15% tracking speed by distributing controller and image processing unit with UDP.
- Mitigated frequency mismatch in distributed systems with trajectory prediction.

## PROJECT

### E-commerce Website

2021/08 - 2021/12

- Implemented backend with JavaEE using DAO pattern and JDBC for MySQL database.
- Utilized Apache Tomcat and Servlet, JSP, Jersey, Jackson library to implement RESTful services.
- Used TDD to handle client and server side data validations with 98% coverage.
- Designed and implemented pages with Figma, Vue and Vuex.

### Arm design contest

2018/07 - 2018/08

- Realized online data streaming to cloud services using async request through UART with TCP.
- Developed an Android app for data visualization and management with Firebase database.
- Communicated with Arm-based Cortex-M4 microcontroller unit utilizing direct memory access.

## EDUCATION

2021/08 - **Master of Engineering in Computer Science**

2023/05 *Virginia Tech, USA*

*- concentrate in machine learning and data analytics*

2017/09 - **Master of Engineering in Robotics**

2019/12 *National Taiwan University, Taiwan*

2012/09- **Bachelor of Engineering in Ocean Engineering**

2017/06 *National Taiwan University, Taiwan*

## SKILLS

- C/C++, TypeScript, Python
- Node, Express
- React, Vue, Backbone, Jest
- MySQL, PostgreSQL, Firebase
- AWS EC2, Docker Compose
- Scikit-learn, Kafka, Spark
- Linux, Bash
- Jira, Git, CI/CD