

# THOMAS CHU-YUAN WANG

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## EDUCATION

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**Vanderbilt University** | Nashville, TN

May 2020

*Bachelor of Science, School of Engineering*

- Primary Major: Computer Science | Secondary Major: Applied Mathematics
- Advanced Courses: Web-based System Architecture, Linear Optimization, Artificial Intelligence, Data Science
- Accelerated graduation by a year

## SKILLS

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### Programming

- Advanced: C++, JavaScript (React, Node, Express), Python, Git, Linux Command Line
- Intermediate: Go, MongoDB, Redis

### Spoken Languages:

- Native: English, Traditional Chinese
- Intermediate: Japanese

## PROFESSIONAL EXPERIENCE

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**A.I. and Visual Analogical Systems Lab at Vanderbilt University** | Nashville, TN

February 2020 ~ May 2020

*Full Stack Developer*

- Developed gaming platform to help adolescents with Autism Spectrum Disorder learn social reasoning skills
- Full-stack development using Angular, Java (Spring Framework), and SQL
- Worked with storywriters and illustrators to visually highlight subtle social concepts through interventional UX design

**Rubinov Lab at Vanderbilt University** | Nashville, TN

January 2019 ~ October 2019

*Research Assistant*

- Developed unbiased integrative statistical models of big structural and functional neuroscience networks
- Used Generative Adversarial Networks (GANs) to construct fMRI samples that satisfied custom constraints
- Coordinated with Vanderbilt University's Advanced Computing Center during job submissions

**Alliance Bernstein** | Nashville, TN

June 2019 ~ August 2019

*Software Development Intern*

- Developed real-time status visualization portal for internal job scheduling system using Angular and .NET Core
- Worked with front-office users to iteratively refine UI/UX prototypes
- Used Splunk to monitor data quality and detect trends in batch delivery times to prevent future delays

## PERSONAL PROJECTS & EXTRACURRICULARS

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**Cytommi.games.com** | Real-time Card Game Web App

*Creator*

- Developed an online platform for users to play the famous drinking game – King's Cup
- Technology stack: React, Scss, Express, Redis, Socket.io; Deployed on an AWS EC2 instance

**Muukaa.com** | Q&A Social Platform for Schools

*Founder & Full Stack Developer*

- Co-founded Q&A web-based social platform which allows alumni, students and faculty of schools to interact
- UWC ISAK Japan user count > 100
- Full-stack development using React, ExpressJS, NodeJS, and MongoDB
- Formalized team Git workflow and code documentation format in preparation for future team expansion

**UWC ISAK Japan Alumni Association**

*Class of 2017 Representative*

- Acted as coordinator between alumni, school officials, and school sponsors to sustain connections
- Managed social media pages and publish monthly newsletters to increase alumni engagement
- Initiated development of official student information portal which integrates Muukaa as a service
- Fundraised 1M Yen total to support alumni who were financially incapable of participating in 2019's reunion event