

John Kyung Han

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GitHub.com/KyungSun4

Education

B.S. Computer Engineering
University of Illinois Urbana Champaign

August 2017 - May 2021
GPA 3.91/4.0

High School Diploma
Vernon Hills High School

August 2013 - May 2017
GPA 4.5/4.0

Relevant Coursework

CS 225 Data Structures*, CS 173 Discrete Math*, ECE 210 Analog Signal Processing*, ECE 313 + 314
Probability with Engineering Applications*, ECE 220 Computer Systems & Programing, MATH 286 Differential
Equations, MATH 241 Calculus III, PHYS 214 Quantum Physics, CS 196 Freshman Honors *Fall 2018

Experience

Member, Illini Solar Car 2017-present

- Developed a race simulation accounting for weather and route conditions along with car inefficiencies to train a neural network and determine optimal race strategy using python
- Learned about all parts of the car and performed repairs and maintenance on electrical system

Member, iRobotics Combotics 2017-present

- Designed and built a robot with a team for Combotics battle bot competition
- Improved problem solving skills while designing mechanical structure and making last minute fixes

Co-Founder, Owl Tutoring, Vernon Hills, IL (owltutoring.co) 2016-present

- Developed custom full stack website using AWS serverless Node.js backend and Vue.js frontend
- Implemented secure payment processing using Stripe and user accounts stored in AWS DynamoDB
- Created automated scheduling and finance systems to manage and optimize day to day operations allowing the company to expand from 3 to 10+ towns and save dozens of hours of work each month
- Formulated and executed business and marketing strategies to improve service and expand business

Sales Associate, Office Max, Vernon Hills, IL 2016-2017

- Developed communication and sales skills by helping customers solve problems and fulfill their needs
- Worked as cashier and stocked shelves

Intern, Ascend Training, Chicago, IL 2015-2016

- Researched and organized search keyword data for website search engine optimization
- Helped raise the business to the top Google search result for numerous relevant queries

Projects

MIT Battlecode Competition January 2017 and 2018

- Implemented AI algorithms to strategically and efficiently control autonomous bot player
- Coded in Java using complex class and inheritance structure while using GitHub to collaborate
- Focused on writing simple and readable code to effectively and rapidly collaborate on development

CS 196 Course Project, Node.js web application (r-place-game.herokuapp.com) Fall, 2017

- Collaborated with teammates to design and code a live multiplayer web game
- Utilized Mongo DB to store game information and user accounts

Skills

Python 4/5	JavaScript 4/5	Vue.js 3/5	Linux 3/5	SolidWorks 1/5
C 3/5	HTML/CSS 4/5	Java 4/5	SEO 3/5	Spanish Fluent
C++ 3/5	Node.js 3/5	GitHub 4/5	Fusion 360 2/5	

Awards

James Scholar, Deans List (FA '17, SP '18), US Physics Olympiad ('17)

Hobbies

Skiing, Sailing, Piano, and Biking