RICHARD KO
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SKILLS

- Proficient in JAVA programming language; O.O.P. 4 pillars(inheritance, polymorphism, abstraction, encapsulation), JavaFX GUI creation and Java API Utilization.
- Proficient in fundamental data structure design and implementation.
- Experience with web development stack(HTML, CSS and Javascript).
- Strong written and oral communication skills (fluent in English and Korean).

EXPERIENCE

Computer Science Club   Santa Monica, CA
Algorithmic Study Coordinator   2020-2021
- Coordinated programming exercise assignments to individual cohorts and moderated for completion.
- Conferred with professors regarding optimal data structure/algorithm design.
    - o Big O analysis for faster and more efficient sorting algorithms (i.e. bubble sort vs. merge sort, etc).
    - o Learning in-place strategies for problem solving (e.g. two-pointer system for array iterations).
    - o Analyzing effective use of maps, dictionaries and tables for faster element retrieval.

Barnabas Robotics   Pasadena, CA
Software Development Intern   2021
- Assisted in a complete overhaul of Google's open source Blockly web-based programming teaching tool for optimization and feature addition.
    - o Took pre-existing code and removed extraneous and superfluous functions (i.e. cleaned up the code).
    - o Created new generator files(.js) and edited code to seamlessly translate Javascript code to C code for use with the Blockly GUI.
    - o Added new "blocks" with functionality requiring knowledge of HTML, CSS and JSON data retrieval.
    - o Created custom generators to allow for string(stationary and scrolling) and image(gif to hex) printing on a small 128x64px LCD screen.
- Developed a greater understanding and received proper instruction on the importance of git and git organization.
- Learned to work in a team environment where natural strengths, technical skills and characters needed to be evaluated and balanced for a harmonious cohesion to project completion.

PERSONAL PROJECTS

Personal C.V. Website
http://www.richardko.de
- Features: pages, links, alerts, downloads and javascript-based basic store.
- Designed the website to be "responsive" in its functionality when resizing to fit modern phone and tablet browser aspect ratios.
- Hosted on Amazon Web Services(S3 and Route 53 utilization).

C.R.U.D. E-Commerce Website
- Created an e-commerce website using java servlets.
- Website database management(CRUD) using React, Express and Sequelize.
- Employed session tracking to save information vital to customer cart information.

EDUCATION

SANTA MONICA COLLEGE   Santa Monica, CA
Computer Science Focus   2019 – 2021
- Dean's List (3.96 gpa)
- Completed courses in Java, C++ and data structures.

UNIVERSITY OF CALIFORNIA, IRVINE   Irvine, CA
Bachelor of Science, Software Engineering   2021 – Present
- Expected graduation: Spring 2023

ADDITIONAL

- Licensed with a Commercial B License.
- Avid sports fan of all Los Angeles team-based sports.