Jai H. Ko

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Summary

A former entrepreneur seeking to improve programming skills and launch a more stable career. A quick learner and clairvoyant problem solver, enthusiastic about implementing technology in businesses to improve efficiency and customer satisfaction. Excellent communication and interpersonal skills. Native proficiency in Korean.

Technical Profile

Languages HTML 5, CSS 3, JavaScript (ES6), jQuery, MySQL, PHP, Java, Node

Concept / Paradigm / etc. Object Oriented Programming (OOP), functional programming, recursive algorithms, ADT (Queue, Stack, Binary Search Tree, List, Graph, etc.), git, AJAX (XHR)

Relevant Work Experience

Steps Education Founder / Full Stack Developer / Tutor   *June 2015 – Present*

Created an education platform that could aid my teaching of math to students. I have created:

- **Interactive apps** Dynamic mathematical concepts that were difficult to teach intuitively via drawings and writings were made easy with interactive apps that guided students to solution. Greatly reduced lesson prep time and improved student engagement.
- **Auto problem generator** Generated practically infinite number of problems for various topics. Problem difficulty could be adjusted at granular levels to aid students' mastery of topic.
- **JavaScript PreMath (Precision Math) library** Built to generate and solve rational number arithmetic with precision. Notable capabilities:
  - Generate / parse / solve arithmetic operations of repeating decimal number and fraction
  - Factorial of 2000 in a few seconds without losing precision.
- **Performance Tracker** Graded students' work automatically, and kept track of other statistics to determine students' proficiency regarding a topic. Practically eliminated lesson prep time, and greatly improved credibility among students' parents.
- **Brand** Distinguished myself as a private tutor who used technology to teach. Hourly wage increased 118% and overall revenue increased over 250% compared to before using the platform.

Education / Relevant Courses

University of Washington, Seattle, Mathematics B.S.   *2005.06 – 2011.09 (discontinued)*

Computer Programming I/II (CSE 142/143), Web Programming (190M), Data Structures & Algorithms (373), Algorithms & Computational Complexity (417)

Miscellaneous

Teaching math Privately tutored math as part and full-time job since 2009. Excellent in explaining complex topics simply

Webmaster, Korean Student Association Updated and maintained the club website during college