

KEVIN KHUONG

kkhuong@ucsd.edu ◊ (626) 478-6250 ◊ Monterey Park, CA

<https://github.com/kkhuong>

EDUCATION

University of California, San Diego

June 2019

Bachelor of Science in Computer Science. Minor in Mathematics.

Overall GPA: 3.521/4.00

Relevant Coursework:

- Data Structures, Discrete Mathematics, Mathematical Cryptography, Theory of Computation, Statistics, Software Engineering, Algorithm Design and Analysis

EXPERIENCE

Computer Science and Engineering Department - UC San Diego

August 2017 - Present

Computer Science Head Tutor

- Head tutor for CSE 21: Mathematics for Algorithms and Systems Analysis
- Contribute questions to, proctor, and grade course exams
- Hold weekly discussion sections and office hours

San Diego Supercomputer Center - UC San Diego

September 2016 - August 2017

Undergraduate Researcher — Advisor: Ilkay Altintas

- Integrate the **Kepler Project** with XSEDE computing resources
- Wrote user and testing documentation for the **Kepler-XSEDE** framework
- Using **Java** and **XML**, developed a generic parameterizable job launcher

Project NEO (Nonprofit Organization)

March 2012 - August 2016

Web Developer — Curriculum Designer — Student Supervisor

- Using **PHP** and **MySQL**, developed an online learning tool for the Common Core standards
- Managed and edited contents on the organization's main website
- Designed the Mathematics and Computational Thinking curriculum
- Led the volunteers and the tutoring sessions

PERSONAL PROJECT

Pokémon DS Customizer

Using **PHP**, **C++**, and **MySQL**, I built a website—extending my e-commerce website—to allow customers to edit Pokémon game save (binary) files when I was 11 years old. Through this Research and Development project, I manually mapped out how data were originally stored in a 512 KB **.sav** file and then use **C++** to automate edits and checksum updates. This project enabled customers to edit game saves themselves through the web instead of sending in a request to customize their order.

PUBLICATION

Shweta Purawat, Kevin Khuong, Parth Shah, Shava Smallen, and Ilkay Altintas. Kepler-XSEDE: A Scalable Workflow Framework. In *Practice & Experience in Advanced Research Computing*, 2017.

SKILLS

Languages and Frameworks

C++, Ruby (on Rails), PHP, Python, HTML

Software & Tools

Git, Sublime Text, Vim, cPanel & WHM, NGINX

Other

Unix, Server Administration, L^AT_EX, Tutoring and Mentoring