

Christopher Pence

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Software Engineer With Demonstrated Expertise In C, Python, Java, C++, HTML, CSS, JS, PHP, SQL, ARM, SPARC

Employment

UCSD Computer Science & Engineering Department

LA JOLLA, CA

Head Tutor

Sep '16 – Jun '17, Sep '17 – current

- Taught C, ARM/SPARC assembly, and Java to classes of up to 600 students.
- Conducted quiz reviews with groups of up to 200 students.
- Solidified understanding of cross-language concepts by designing class discussions.
- Enhanced communication skills by one-on-one tutoring.
- Developed leadership skills by mentoring and guiding discussion plan development with the tutor team.

WhizKidz Computer Center

SAN JOSÉ, CA

Instructor/Developer

Jun '16 – Sep '16, Jun '17 – Aug '17

- Constructed curricula for two pilot game development classes using Pygame Python gaming library.
 - Taught Python, Arduino hardware/software development, and HTML/CSS/JavaScript.
 - Implemented a permissions-based user account system in MySQL and PHP for the website.
 - Designed an online homework submission system with dynamic data-driven interface construction.
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Education

B.S. in Computer Science

UNIVERSITY OF CALIFORNIA - SAN DIEGO

Relevant Coursework

Sep '15 – Jun '19, GPA: 3.86

- Data Structures and Object-Oriented Design (C++)
- Software Engineering (Android Phone App)
- Computer Organization and Systems Programming
- Discrete Mathematics and Applications in CS Theory
- Linear Algebra
- Theory of Computation

Currently taking:

- Database System Principles
 - Computer Networks
 - Machine Learning
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Projects

ProofBuilder: Won first place in the Education category at Hacktech '16 for a proof “workbench” written with HTML/CSS/JS that facilitates writing proofs for proof-based classes.

Eventlit: Android mobile application with a Firebase backend for authentication and data storage. Made for CSE 110 software engineering course at UCSD. Provides a platform for UCSD student organizations to post events and accept RSVPs.

jas: Reinforced newly acquired knowledge of ISAs by writing an assembler in C, for a hypothetical virtual machine and its instruction-set (personal project).

slang: Reinforced programming language skills by developing a programming language inspired by Haskell with functional and imperative programming features (personal project).

Skills

Highly Experienced with: C, Java, Python, Unix

Web Stack: HTML5, CSS3, JavaScript (with jQuery), Node.js

Capable with: C++, MySQL, PHP, Matlab, Wolfram, Java AWT, \LaTeX

Source Control and Editors: Git, Vm, Atom.io, IntelliJ, Eclipse, Visual Studio

Natural languages: English, Spanish

Other Interests

Art, Design, Photography