

# Kevan Nguyen

408-859-1918 | kevanhn@uci.edu | [kevannguyen.com](http://kevannguyen.com)

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## EXECUTIVE SUMMARY

An aspiring **software engineer** looking for an internship this upcoming summer. An adaptable engineer who specializes in software development, possesses strong analytical and technical skills, and operates effectively both independently and in a team. A third year Computer Science and Engineering student of the University of California, Irvine interested in software engineering, full-stack development, and test automation roles.

## EDUCATION

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University of California, Irvine  
B.S. Computer Science and Engineering

Expected Graduation: June 2018  
Computer Science GPA: 3.72  
Cumulative GPA: 3.46

## RELEVANT COURSEWORK

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- Database Management
- Computer Architecture
- Data Structures
- Algorithms
- Computer Networks
- Artificial Intelligence
- Embedded Systems
- Operating Systems

## EXPERIENCE

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Python Tutor | University of California, Irvine

January 2015 – March 2015

- Guided students towards enhancing their mastery of Python concepts
- Involved with the development of lesson plans on specific topics in ICS 31
- Observed improvement in students throughout the quarter and received 94% student approval with an average rating of 8.83 / 10

## PROJECTS

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Sudoku Solver | Python

March 2017

- Optimized Sudoku solver implemented with a backtracking AI in Python
- Incorporated various heuristic functions to improve execution time including arc consistency, forward checking, naked pairs, MRV, and LCV

Radio Control Vacuum Cleaner | Arduino / C++

August 2016

- Investigated using Arduino UNO R3 for personal learning and interest
- Constructed remote control vacuum cleaner programmed in C++ with standard car chassis kit and combination of passive/active electronic components
- Controlled vehicle movement and vacuum switch with the nRF24L01 RF transceiver module implemented on a custom-made controller

Console-based Text Editor | C++

December 2015

- Designed console-based text editor in C++ through modular object-oriented practices
- Implemented basic functionality including text insertion, deletion, undo, and redo through polymorphism
- Adopted the use of stack data structure to facilitate undo and redo operations

Karnaugh Map Minimizer | iOS

August 2015

- Created Karnaugh map minimizer app for iOS devices using Swift 2.0 to simplify Boolean expressions
- Reduced dynamically created Karnaugh maps of up to six variables and presented results graphically in tables
- Implemented with the Quine-McCluskey algorithm and Petrick's method

## LANGUAGES AND TECHNOLOGIES

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**Proficient:** C, C++, Python

**Familiar:** HTML, CSS, JavaScript, jQuery, Java, SQL, Swift

**Skills:** Xcode, Arduino, MySQL, MacOS, Linux, Windows