Alvin **Nguyen**

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Education

University of Washington Tacoma *Tacoma, WA*
BACHELORS OF SCIENCE IN COMPUTER SCIENCE AND SYSTEMS *Graduation date of June 2018*
GPA: 3.18

Work Experience

Coding With Kids *Redmond, WA*
INSTRUCTOR *October 2017 – Present*
- Teach students how to use Python and Scratch to code and make games
- Incorporate computer science fundamentals in lessons

University of Washington Tacoma - Institute of Technology *Tacoma, WA*
UNDERGRADUATE TEACHING ASSISTANT *January 2018 – Present*
- Lead and assist students in a 2 hour labs every Friday in TCSS 142 Introduction to Programming
- Mentor students during office hours and grade assignments

University of Washington Tacoma - Institute of Technology *Tacoma, WA*
GRADER *January 2018 – Present*
- Grade assignments in Assembly and C for TCSS 371 Machine Organization

Skills and Technologies

Programming Languages: Java(3+ years), C, Python, Javascript, NodeJS, PHP, MySQL
Operating Systems: Unix/Linux, Windows, OS X, Android
Version Control: Git, SVN
Database: MariaDB, MongoDB
Realtime web apps: NodeJS, Socket.IO, Dgram
Mathematics: Algorithms Design and Complexity Analysis, Discrete Structures, Relational Algebra, Statistics

Projects

Dodgeball Fighter Game *JavaScript, NodeJS, Git, Socket.IO, Dgram, HTML, CSS*

DODGEBALL FIGHTING GAME INSPIRED BY LETHAL LEAGUE. ON A TEAM OF 4, I DESIGNED CLIENT SERVER
INTERACTION AND IMPLEMENTED CORE FEATURES OF GAME PLAY MECHANICS IN JAVASCRIPT AND NODEJS. *https://github.com/csHourglass/BallsOfFury*

SliderPuzzle *Java, Swing, Git*
I LEAD A TEAM OF 4 IN CREATING A SLIDER PUZZLE GAME AT A HACKATHON. I DESIGNED CLASS HIERARCHY AND
INTERACTION ACCORDING TO MVC DESIGN PATTERNS AND WORKED ON THE MODEL AND CONTROLLER ASPECTS. *https://github.com/alveeno/sliderpuzzle*

LC-3 Simulator *C, Assembly, LC3*
USING C, I CREATED A SIMULATION OF LC-3, A COMPUTER PROGRAMMABLE IN ASSEMBLY LANGUAGE *https://github.com/alveeno/LC3Sim*

eMarketplace System *MySQL, MariaDB, PHP*
SIMULATION OF AN EMARKETPLACE SYSTEM WITH SELLER AND BUYER GRAPHICAL USER INTERFACES (GUI).
TRANSACTIONS AND RECORDS ARE STORED ON A DATABASE AND USING PHP AND MYSQL, INFORMATION CAN BE *https://github.com/alveeno/emarket*
CREATED, READ, UPDATED, AND DELETED (CRUD) FROM THE DATABASE.

Activities and Awards

DEAN'S LIST (MULTIPLE QUARTERS), HUSCII PROGRAMMING CLUB, ACM-ICPC INTERNATIONAL COLLEGIATE
PROGRAMMING COMPETITION