KHOI HOANG

(916) 752 - 4704 | hgdangkhoi@gmail.com | hgdangkhoi.com | Sacramento, CA

EDUCATION

California State University, Sacramento - GPA: 3.91/4.0

August 2015 – December 2017 (Expected)

Bachelor of Science - Computer Science. Minor in Mathematics.

Concentration: Cyber Security and Operation.

Dean's Honor List - Top 10% (Fall 2015 - Fall 2016)

Coursework:

Completed: Data Structure, Computer Networking, Database Management System, Graphics Programming

In Progress: Operating System, Advanced Algorithm, Computer Forensics

WORK EXPERIENCE

Software Engineer Intern

VSP Vision Care

May 2016 – August 2016

- Part of an Agile team, developed a workflow application using AngularJS and Node.js to manage 500,000 claims per year. The application reduced annual labor costs by \$75,000 per year by increasing uptime and improving multiple user availabilities.
- o Created HATEOS RESTful services using JBoss-Rest easy and JPA-Hibernate to support the front end UI.
- Led team of 4 in writing unit and end-to-end testing. Researched new test frameworks Karma, Protractor and Cucumber to train team members and configured test suite on Jenkins.
- o Code is scheduled to be pushed to production in 3 weeks after internship end date.

IT Technician

California State University, Sacramento

June 2015 - Present

- System Administrator, managed networks and servers for 5 CSUS Academic Departments.
- o Repaired computers with software, hardware problems and maintained lab systems.
- Developed scripts to automate network administration tasks and application deployments.

Programming Tutor

MESA, Cosumnes River College

Mar 2012 - May 2015

- o Provided tutoring for students in all offered programming courses.
- o Analyzed defects in students' code and explained debugging strategies.
- o Held impromptu pair-programming sessions and devised study plans for exams throughout the semester.

ACADEMIC PROJECTS

Driving Simulator (Senior Project)

o In an Agile team of five, developed a virtual 3D world driving simulator using real time data to analyze traffic and drivers' behaviors – Oculus Rift, Leap Motion, Unreal Engine, C++, MariaDB.

Object Recognition

Implemented a neural network to detect objects from images – Python, Numpy, Matplotlib, Scikit-learn.

Neural Network

o Implemented a neural network to predict problem based on real dataset – Python, Numpy, Pandas.

Spaceship

 Developed a 2D cross-platform mobile game using multiple design patterns: iterator, singleton, command, and observer – Java, Codename One.

Sequential Multiplier

o Implemented a sequential circuit of a 7-bit 2's complement multiplier using 8-bit adder/subtractor – Verilog.

UNIX Shell

Programmed a simple shell that supports basic UNIX commands, I/O redirection, and background jobs – C.

Asteroids & 2048

o Programmed clones of 2048 and Asteroids games using list, dictionary and complex calculations – Python.

TECHNICAL SKILLS

Proficient in: Python, Java, C++, C, AngularJS, JavaScript, Node.js, HTML, CSS, Protractor, Cucumber, Karma

Experience in: Numpy, Matplotlib, Scikit-learn, REST API, AWS, Codename One, SQL, Verilog

Applications: Eclipse IDE, Maven, GIT, Jenkins, JIRA, Visual Studio, Altiris