Joe Kuo

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Education

Bachelor of Applied Science *SFU, Burnaby, BC* *Sep 2011 - 2017*

- System engineering

Skills

Software

- 4 years programming experience including PHP, C++, C, Golang, Python
- Web Development Framework and Tools such as (JavaScript: NodeJs, JQuery, BackboneJs, ReactJs, PHP - Symfony, RESTful, Ruby on Rails)
- Database SQL scripting and query optimization (PostgreSQL, MongoDB)
- Internet protocol (Tcp/Ip), SSH protocol
- Various Open Source development tools (Docker, Github, RabbitMQ, Nginx, Redis)
- Windows, iOS, Linux (Shell scripting)
- Agile Practice, Extreme Programming, Test Driven Development
- Groovy, Selenium Automation Testing

Experiences

Software Developer in Test *Beanworks Solution Inc., Vancouver, BC* *May2015 - Present*
Co-op & Full-time position

- Tested and debugged web application product using manual and automation testing technique on Javascript and PHP environment to ensure a bug-free application
- Developed both frontend and backend feature of web application using Symphony PHP and Backbone JS framework to achieve client requirement
- Experienced in DevOps task including database migration, network traffic rerouting and server setup process to maintain scalability and performance of system

Assistant Information System Analyst *eSenso Biotech Inc., Vancouver, BC* *Sep - Dec 2014*
Co-op position

- Collected information for product launch including market research, regulation and distribution
- Designed database using MS Access and SQL to collect and organize information required for market analysis

Technical Projects

Mobile Application Project *Self-Educated* *May 2016 - Present*

- Used Beego framework with golang to build mobile/web application

- Designed and implemented open source projects for api to serve both Android, iOS on mobile application

Web Application Project *Self-Educated* *Jun 2015 - Present*

- Built different web applications using Ruby on Rails on Linux as practice
- Experienced different web development tool including LAMP, web automation testing on different platform
- Free lancer for static website for companies and personal use

Technical Project (Continued)

Introduction to robotics *SFU, Burnaby, BC* *Sep -Dec 2015*

- Implemented C++ programs using OpenGL library mimic robot motion base on several terranes
- Studied robotics physics and applied algorithm into programming robot for serve different objective
- Designed and tested robot reaction toward real-life use cases to improve user experience

RAHS (Remote Automotive Heating System) *SFU, Burnaby, BC* *Jan – May 2015*

- Programmed in Arduino to perform specific functionality of project
- Designed program and circuitry for better communication between system
- Tested all functionality and performance of product in every aspect to improve the product

Medial Image Processing *SFU, Burnaby, BC* *Jan – May 2015*

- Programmed in Matlab using various algorithm and functions to enhance presentation of image
- Designed different applications to improve image analysis using Matlab and various algorithm
- Practiced different image manipulation techniques and algorithms to create practical applications

Microcontroller Interfacing and Assembly Programming *SFU, Burnaby, BC May - Aug 2014*

- Developed both C++ and Assembly program on SDK environment to modify FPGA output and operate with input
- Programed Assembly language for NXP LPC2104 Microcontroller simulation to utilize the peripherals
- Designed and debugged ARM based processor in assembly level to maximize performance and minimize the cost of production

Data Structure and Programming in C++ *SFU, Burnaby, BC* *Sep - Dec 2013*

- Designed the multi-level feedback queuing algorithm (MLFQA) system to simulate the scheduling of a CPU using recursively implemented linked list and queues.
- Debugged and tested the efficiency and cost of a hash table in C++ for airports in Canada by manipulate the hash function and size of the table
- Constructed a telephone directory using various data structures such as binary search tree and linked list in C++ to improve the performance and functionality of the program