

Shuzhong Chen

19530 Forest Ave., Castro Valley, CA 94546 | C: (510) 634-8690 | shuzhong.chen@sjsu.edu

Objective

Software Engineering position

Education

San Jose State University, San Jose

- *Master of Science, Software Engineering, Expected Dec 2018*

Relevant Courses: Data Structures and Algorithms in C++, Database System, Operating System Design

Northeastern University, China

- *Master of Science, Biomedical Engineering, June 2013*
- *Bachelor of Science, Biomedical Engineering, June 2011*

Relevant Courses: Object Oriented Programming (Java and C++), Data Structure, Database Principle

Skills

Programming / Scripting Languages: Java, C++, C, SQL, Matlab, Mathematica

Database: MySQL, MS SQL

Operating System: Windows, Linux

Experience

System Test Engineer

Siemens (Shenzhen) Magnetic Resonance Ltd. December 2015 - July 2016

- Develop test automation on angiography system
- Operate database and write test automation scripts

Research Assistant

The Chinese University of Hong Kong, July 2013 - July 2015

- Design experiment to obtain Magnetic Resonance clinical image data.
- Develop image analysis algorithm using Matlab scripting language

Software Developing Internship

Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, May 2012 - June 2013

- Research and develop image processing algorithm and computer aided diagnosis system. Develop a method to characteristically analyze medical image. The program is written in C, Matlab and Mathematica

Relevant Projects

Sudoku Game Application

San Jose State University, 2016

- A Sudoku game application with GUI is developed. This application includes a Sudoku puzzle generator and a validator. The generator generates a random Sudoku puzzle each time by using back-tracking algorithm. The validator validates different rows, columns and sub-grids separately and simultaneously by applying multithreading technology. This application is written in C++ with Visual Studio 2015. The GUI is developed by C++ MFC programming.

Alzheimer's Disease Automatic Diagnosis Algorithm

Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, 2013

- Developed an Alzheimer's patient automatic diagnosis algorithm base on medical image. Insight Segmentation and Registration Toolkit (ITK) is used for image registration and segmentation. Supported vector machine is applied in this algorithm to train a separation model and classify test images into underlying groups. Accuracy is higher than 90% under k-fold cross validation. Programs are written in C and Matlab.