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Zhen Gong

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EDUCATION

California State Polytechnic University – Pomona, CA

September 2011 – June 2014

M.S. Computer Science Cumulative GPA: 3.40

TsingTao University of Science and Technology – Tsing Tao, China

September 2005 - July 2009

B.S. Environmental Science with minor Computer Science GPA: 3.9

RELATED COURSES

- Software Engineering, Software Verification and Validation, Advanced Computer Architecture, Data Structure, Operating System, Algorithms, Compiler Design

SKILLS

- Programming Experience – C/C++, Java, Python, SQL
- Database – SQL Server, MySQL, Oracle
- Software/Tools –GCC, GDB, Eclipse, GitHub, Jira
- Web programming language – HTML5, CSS, PHP, Javascript, JQuery,
- Familiar with Linux system (Fedora/Ubuntu/Debian) /bash / command line

RELEVANT EXPERIENCE

Software Engineer, PSC Biotech – Pomona, CA

October 2013 – present

- Building PHP web application ACE (Adaptive Compliance Engine) using Yii framework.
- Backend development of websites using PHP, MySQL. Design MySQL database architecture. Troubleshoot and debug minor program bugs. Modify existing programs with enhancements through Sourcetree and Git.
- Writing unit testing with PHPUnit. Validating the functionality of each screen using automation test with selenium testing. Executing queries test script for MySQL to retrieve data from the database.
- Analyzed test results, identified issues and reported it to the developers and project manager through Jira.

Teaching Assistant, California State Polytechnic University – Pomona, CA

May 2012 – October 2013

- Working as a grader for the class “Computer Architecture” and “Intro to Compute Science”.
- Assist in troubleshooting, problem solving, and system deployment of Linux and PC systems.
- Responsibilities included grading the assignments, exams and giving presentation and help to students on lab section.

RELATED COURSES PROJECT

Design and implement a static analysis tool basing on Crystal Framework

(CS585: Software Verification and Validation)

- This project was to use Crystal framework to implement a constant propagation program to notify users if they use loop statement (if, while, for, do while) where expression being evaluated is constant.
- Write multiple tests with respect to each quality assurance technique.
- Language: Java
- Source code: <https://github.com/gongzhen/cs585CrystalStaticalAnalysisProject>

Implement AspectJ to create a code coverage and path coverage aspect in Java

(CS585: Software Verification and Validation)

- Implement a code coverage program that use aspect oriented programming. It will print out how many times the program executed normally and exists exceptionally.
- Print out an analysis report to display how many time s the constructors were invoked during execution.
- Language: Java
- Source code: <https://github.com/gongzhen/cs585dynamicproject>

Design and implement Advanced Encryption Standard (AES) and Riverst-Shmir-Adleman (RSA) cipher in Java. (CS460: Secure Communication)

- Work independently on implementing a program for AES cipher which is capable of using cryptographic keys of 128, 192, and 256 bits to encrypt and decrypt data in blocks of 128 bits.
- Implement a class called AES.java and RSA.java allows constructing an AES and RSA cryptosystem with new or existing keys.
- Language: Java