

Ming Lei

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EDUCATION

Johns Hopkins University, Baltimore, Maryland

Dec 2019

Master of Science in Computer Science with a concentration in Enterprise and Web Computing **GPA: 3.81**

Coursework: Data Structure, Algorithm, Computer Organization, Computer Architecture, Database Systems
Software Engineering, Enterprise Web Development, Web Application Development with Java
Big Data Processing Using Hadoop, Object Oriented Programming with C++, XML

University of Southern California, Los Angeles, California

Dec 2013

Bachelor of Science in Business Administration

SKILLS

Language: OO design using **Java, C++, Python** Web development using **HTML, CSS, JavaScript, Bootstrap**

Database: relational databases (**SQL, MySQL, Oracle, Apache Derby**) and NoSQL databases(**MongoDB**)

Tools: Eclipse, NetBeans, Visual Studio, IntelliJ, Sublime, MATLAB, Git/Github, SQLyog, Navicat, WinSCP

WORKING EXPERIENCE

Northrop Grumman, Palmdale, California

Associate Software Engineer

Dec 2019-Present

- Developing unit tests to get code coverage to 100% (statement & decision coverage) using C++
- Importing unit tests (Test Procedure Name, Input Parameters, Expected Result) into IBM DOORS and linking Unit Tests to CLSAPI (Low-Level) requirements
- 100% of the Low-Level Requirements have a corresponding Unit Test that is traced to verify low-level requirements

Software Engineer Intern

Jun 2019-Aug 2019

- Developed software for aircraft navigational system to meet current FAA standards
- Wrote testing scripts and framework in MATLAB to ensure algorithms accuracy
- Auto Generated C++ in MATLAB to be used in Flight Management System

ENGINEERING PROJECTS

Employee Management System

Oct 2019-Nov 2019

- Designed a console application to enter, search, view and edit the complete personal record of each employee in a company using C++
- Incorporated the validation throughout the application for each entry
- Stored data into text file so that the information can be reload back into system once activated

Source Code Repository: <https://github.com/leimingg/EmployeeManagementSystem>

Event Recommendation System

Jan 2019-Apr 2019

- Implemented a personalization Java Web to improve event search and recommendation based on users' browsing history
- Researched common methods (User-based, Content-based, Demographic-based and Item-based) to provide events recommendation based on item profile
- Designed an interactive web page (HTML/JavaScript) for users to search events, update preference and view recommended events.
- Built a web service using (Java servlet, REST API) to fetch event information from TicketMaster API
- Stored user preference and event data by using MySQL/MongoDB

E-Commerce Web Development: Books R US

Oct 2018-Dec 2018

- Implemented JSP and HTML pages for all the screens and JavaScript validation for the user interface
- Constructed functionality to send e-mail confirmations and error screens
- Coded Servlet for shopping cart management and check-out using SSL
- Coded Servlet for extracting data from the database and passing the data to the product selection JSP pages
- Implemented MySQL database and interface with application

Source Code Repository: <https://github.com/leimingg/BooksRUS>