

## Na Han

Burnaby, BC, Canada

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### SUMMARY OF QUALIFICATIONS

A challenging position combining my skills in a **Computer Science related** field

- Proficient in developing information systems including database systems and web-based information systems.
- Experience in implementing computing systems including operating systems and data communication and networking systems.
- Project management skills for software design and development using Gantt Chart.

### SKILLS:

- Programming languages: Python, ASML, Java, C++, Scheme, Matlab, MS SQL, MySQL, HTML
  - Style Sheet Languages: CSS, Tweeter Bootstrap
  - Operating Systems: MS Windows, Linux, Unix, MAC OS X, Android
  - Version Control: git, Subversion
  - Project Tracking Tool: Atlassian Jira
  - Office Tool: MS Word, MS Access, MS Excel, MS PowerPoint, MS Project and Visio
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### PROFESSIONAL EXPERIENCE

#### Simon Fraser University (SFU), Canada

May 2012 - Oct. 2014

Simon Fraser University is one of Canada's top comprehensive universities ranked by Maclean's magazine during the past 20 years.

#### ATM (Cash Dispenser) System

- Co-operated with other group members and built an ATM system to help users achieve cash withdrawal, deposit, balance check, report a stolen card and request for bank statement by using Abstract State Machine Language
- Modeled the functional requirements and implemented a prototype by adopting Agile and Extreme Programming
- Expanded the ASM model through horizontal and vertical refinements to consider the non-functional requirements
- Used several FIFO queues to implement the concurrency control and avoid conflict and information lost
- Designed test plans and performed system, unit and acceptance tests in white box testing and black box testing

#### Data Communications and Networking

- Explored the Wireshark packet sniffer and captured and displayed the contents of messages being sent/received from/by HTTP, DNS, UDP, ICMP, IP, TCP at different levels of the protocol stack.
- Implemented the Distance-vector and the Link-state algorithms by using Python
- Developed the Cyclic Redundancy Check (CRC) by using Python
- Completed the web server and UDP Pinger socket programming by Python

#### Script Cafe

- Built an online coding school system on Django framework and Apache server
- Created a database on MySQL server
- Designed templates for the framework and extended them with several HTML pages
- Developed the CSS for all web pages by using bootstrap
- Integrated JavaScript and jQuery with HTML and CSS to build the project's websites

#### GoSFU

- Developed a user interface to enhance users' experience of GoSFU (the student information system of SFU) by using the usability evaluation
- Gathered user characteristics by using questionnaires and interviews on 7 users
- Designed a user interface by using an iterative, user-centered approach to optimize the usability and user friendliness of the application
- Demonstrated team work skills by collaborating with another team member to determine the suitable user interface design

**PatrolBuddy**

- Worked with other four group members to develop an iOS application called PatrolBuddy using Objective-C which helped Vancouver Police Department manage and record their patrol activities
- Designed test plans based on software requirements and technical specifications
- Wrote use cases and automated scripts to be used for testing software.
- Performed system, unit and acceptance tests in white box testing and black box testing
- Documented results , observations and historical analysis of test results
- Utilized HTML and CSS to create a simple team website as a communicative platform for internal and external application developing members
- Gained and applied the knowledge of the project management life cycle and systems development life cycle

**LU CHAN, Barrister & Solicitor, Burnaby, Canada****Office Assistant**

Jan. 2011 - Apr. 2012

- Assisted the office manager in the development and design of the customer database strategies, system monitoring and improving the database performance and capacity
- Accessed and updated the archived data by using MS SQL server 2008 and 2012
- Coordinated the office manager in planning for backup and recovery of database information
- Maintained the office network and performed general office duties, including faxing, copying, operating postage machine and troubleshooting when necessary

**Beijing JJJ Overseas Education and Consulting Co., Ltd., Beijing, China****Office Assistant**

July 2005 - Nov. 2010

- Assisted the office manager in the development and design of the customer database strategies, system controlling and improving the database performance and capacity
- Accessed and updated the archived data by using MS SQL server 2008 and 2012
- Coordinated the office manager in planning for backup and recovery of database information
- Maintained the office network and performed general office duties, including faxing, copying, operating postage machine and troubleshooting when necessary

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**EDUCATION**

B.S. in Computing Science,      Simon Fraser University, Vancouver, Canada      October 2014

Relevant Courses:

Software Engineering, Data Structures and Programming, Operating Systems, Database Systems, Information System Design, Model-based Computer Vision, User Interface Design, Web-based Information System, Artificial Intelligence Survey, Data Communication and Networking

B.A. in Economy,      Beijing Forestry University, Beijing, China      July 2004

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**VOLUNTEER ACTIVITIES**

I was a volunteer tutor at a the Elementary School Affiliated to Beijing Forestry University (four hours per week) during the academic year 2003-2004.

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**OTHERS**

Canadian citizen