

XIAOTIAN (ALEX) LI

Address: 1650 Tasco Cl. Victoria, BC. (250) 884-5539
Email: alexli@uvic.ca Website: <http://www.smilesky.ca/>

PROFESSIONAL PROFILE

- A passionate and thriving software developer with more than 3 years experience on objective oriented programming and web development.
 - The four-year computer science study at University of Victoria gives me a solid foundation on computer science knowledge such as operating system, network and computer architecture.
-

EDUCATION

Bachelor of Science

University of Victoria

09/2012-04/2016

- Major: Computer Science, Computer Communication & Networks Option.
-

TECHNICAL KNOWLEDGE

- **Programming Language:**
Java: Implemented an audio framework from scratch. Familiar with object oriented and the principle of functions.
Python, Django: Had experience with creating a website's backend
JavaScript: Designed and implemented dynamic and responsive webpages with JQuery.
C, C++: Designed and developed Linux shell and file system with C
PostgreSQL: Worked on an IMDB movie database
 - **Programming Tools**
Eclipse, JEdit, Visual Studio, Vim, QT, Sublime Text: Had experience with IDE and pure text editor as well
 - **Version control:**
Git,: Using Git as a version control tools when working on project
 - **Operating System:**
Windows (7, 8): Familiar with Windows OS which includes set up programming environment, IDE setup, troubleshooting.
Linux (Ubuntu), and Mac OS X: Confident and fluid with the Unix ecosystem by setting up different versions of Linux and using OS X every day
 - **Other Software:** Excel, Word, PowerPoint, Corel Video Studio
-

WORK AND VOLUNTEER EXPERIENCE

Web Developer Coop

01/2016-04/2016

Environment Canada, Victoria, BC

- Migrated internal documentation wiki to a new server, rewrote and debugged Python and C code and managed SQL database.
- Designed and implemented query database function on Twiki pages primarily with JavaScript (JQuery), AJAX, Python and SQL.
- Did functional testing and non-functional testing while developing web application.

QA Intern

08/2013-09/2013

Inspur Worldwide Services Limited, Jinan, China

- Reviewed Java code with eclipse as a team member.
- Tested the completed software according to business needs and increased software quality.
- Translated documents between English and Chinese.

Green Association Volunteer

Student Green Association of Tsinghua University, Beijing, China

09/2011-07/2012

- Participated in the planning and organization of 20 activities.
- Cold-called business partner and raised funds for the association.

ACADEMIC PROJECT

Video On Demand Streaming

- Implemented a video streaming services that can stream on demand through a modern web browser.
- Worked with a teammate to utilize a website with Bootstrap and develop a video upload method with Node.js.
- Wrote testing scripts to make sure project functions well.

BestBuy Price Alert

- Developed an automatic manager for BestBuy buyers with BestBuy API and strengthened an understanding on self-adaptive system.
- Mainly responsible for developing a restful API and displaying price change on front end, demonstrated front-end skills to make website dynamically.

Audio Framework

- Implemented an audio framework from scratch in Java, which allows users to access sampling rate, volume, number of tracks and more.
- Provided music wave formula and applied music knowledge on objective oriented programming.

Embedded System for a Treadmill

- Fixed problems in program and improve them with new features.
- Tested the program using the simulator with the board plug-in as output peripherals.
- Implemented the program to run on the Embest board with real peripherals.

Computational Quiz Generation

- Worked on an existing web-based editor for the creation and modification of quiz files with Python and HTML.
- Designed and implemented basic web page layout with HTML.

Ray Tracer

- Implemented a plane (as flood) and spheres at arbitrary positions in space by ray-tracing with C++.
- Tested and debugged on QT.

Stop-and-wait Protocol

- Implemented a bidirectional Link layer service in C++
- Used byte stuffing and byte corruption to support framing.

Realistic Shell Interpreter

- Implemented a realistic shell interpreter using system calls and interacting with Linux system with C.
- Designed a list, which can print out the running background jobs.

INTEREST AND LANGUAGE

- **Interest:** Piano and Basketball
- **Language:** Mandarin

REFERENCE AVAILABLE AS REQUIRED