Chengzhi (Vincent) Li

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Education Background

Sauder School of Business, University of British Columbia, Vancouver, BC **09/2013-Present**

- Combined Major in Business and Computer Science (Co-op), Bachelor of Commerce, GPA: 3.80/100
- **Awards:** Trek Excellence Scholarship (2016W & 2017W); Sauder School of Business International Student Scholarship (2017W); Dean's Honour Roll (2014W & 2016W)
- **Relevant Coursework:** Integral Calculus(97%), Differential Calculus(94%), Introduction to Probability(96%), Computation, Programs and Programming(A-), Models of Computation(A+), Application of Statistics in Business(A+), Calculus III(A+), Matrix Algebra(A), Introduction to Computer Systems(A), Basic Algorithm Design and Analysis(A), Intermediate Algorithm Design and Analysis(A-), Elementary Differential Equations(A+)

Work Experiences

Agile Developer Intern at **SAP Canada, Vancouver, BC** **09/2015-08/2016**

Skilled in Python, Git and Gerrit, Shell Scripting, JavaScript, Java, SAP HANA, Jenkins, Jira, Scrum

- Awarded Super Intern out of 32 candidates, offered a full-time position upon completion of undergraduate study
- Initiated and responsible for automation projects for a cloud-based business analytics. Persuaded direct management and headquarters in Germany to approve the process, reduced error-rate in half, and improved efficiency and cutting manpower by 20 times
- Developed Jenkins jobs using APIs from SAP HANA Cloud Platform, SAP Jira and a Mozilla bug database to automate manual operation tasks
- Complemented the cloud application with new functions and reinforced the user experience with consideration of customer desire in addition to technological needs

Computer Projects

Kaggle Competition – Digit Recognizer, *Skilled in Kaggle Kernals, Python* **12/2017**

- Implemented a model to identify digits in a given picture using Support Vector Machine technique on the first 5,000 28x28 pixels test images. Increased accuracy from 10% to 88.7% by standarding the inputs

Background Subtraction of Videos, *Skilled in Julia, Machine Learning Techniques* **10/2017**

- Calculated traffic flow and automize transportation, removed background by using a latent-factor model named Robust PCA with a L1-norm and a multiquadric approximation, predicted responses with estimations based on separate regressions on known row and column features

WeChat Mini Application, *Skilled in Javascript, CSS, HTML* **07/2017**

- Allow users to record amount of exericises by providing a user-friendly interface
- Recorded and tracked data including body temperature, weight, food consumption, sleep habit and other health-related factors
- Customized training plans and developed a recommendation system based on user's dataset and expert opinion

Insight UBC, *Skilled in JavaScript, Typescript, jQuery, Node.js* **12/2016**

- Created a website using extensive JavaScript with a user-friendly UI. Allowed users to import datasets containing UBC courses and query information
- Initiated efficient course searching and developed an automatic scheduling system, used by 15000 students
- Invented a room scheduler that assigns classes to classrooms matching room capacity and class size

Resturant Quiz, *Skilled in Java, Android Development* **04/2015**

- Developed a fun game. Accumulated 5000 visitors within first five days and became a hit game within one week
- Created a location application using Google Map API and Yelp API to locate a restaurant on the map and produced a Java GUI to provide users with visual hints, altered each time
- Designed JUnit test cases to identify complex, structural and logic issues and set testing points

Resource and Transportation Optimization Algorithm, *Skilled in C, Multithreaded programming* **03/2015**

- Volunteered in the unisex public washroom project to support the transgender population

- Created a C program using multithreading, monitors (mutexes) and conditional variables and optimized thread scheduling, implementing on resource and transportation optimization
- Ensured no deadlock and the fairness for multiple threads entering the critical section with a reasonable waiting time by using conditional variables

Universal Puzzle Solver, *Skilled in C++, Xcode, Unix* **03/2015**

- Implemented ADTs stack, queue, priority queue and dictionary with data structures such as Linked Lists, Array, Binary Heap, AVL and Hash Table to solve puzzles
- Generated depth first search (DFS) and breadth first search (BFS) methods and compared performance that helped decide on the best approach depending on the context
- Performed the asymptotic analysis to compare the performance of linked lists, AVL Tree, Hash Table with Linear Probing, and Hash Table with Double Probing for the same ADT dictionary

Additional

- **Programming Languages**: Java, JavaScript, TypeScript, Matlab, Julia, Python, C++, C, Shell script, HTML, CSS, SQL, VBA
- **Software**: Eclipse, IntelliJ, Xcode
- **Operating Systems**: Windows, Mac OS, Linux
- **Database**: Microsoft SQL Server, SAP HANA, MangoDB
- **Volunteer Experience**: Tech Trek Volunteer (10/2016), GIRLsmarts4tech Programming Activity Team Member (08/2015), Electronic Arts-Computer Science Digital Media Job Expo Group Leader (03/2015)
- **SAP Charity Hackathon**: developed an automation tool for a Vancouver charity in Excel using VBA with other three team members from sales, product management, and development team, presented in front of the charity and other Hackthon teams (10/2015)
- **Interests**: Table tennis (6 years), tennis (7 years), working out (2 years), calligraphy (2 years), American 9-ball pool, taekwondo, skating, swimming, soccer, basketball, electronic organ, cooking, public speaking, reading technology news and Go chess