Benjamin (Zhiyuan) Song

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EDUCATION

- **University of Waterloo, Waterloo, ON**   Sept 2015 – Present (Expected 2019)
  Candidate for **Bachelor of Mathematics, Computer Science,** Honours
  Cumulative GPA: 80.08%

SKILLS

- **Programming Languages**: C++/C, Java, Python, Scala
- **Web Development**: HTML5, CSS, JavaScript, Bootstrap, DOM, jQuery, Node.js, Express
- **Tools:** Shell Script, SQL, Hadoop, Spark, Design Patterns, UML, Android Studio, XML, Sketch

PROFESSIONAL EXPERIENCE

Digital Exhibit Developer, University of Waterloo – Renison University College, ON, Canada   May 2018 – Aug 2018
- Developed web-based displays introduced Renison University College for kiosk using Bootstrap, jQuery, CSS, and HTML5
- Created a new UI based on the requirements from supervisor
- Designed a game that deepens the understanding of the programs offered by Renison University College for visitors using JavaScript and Photoshop
- Participated in the project discussion, and pinpointed opportunities and potential challenges to the supervisor from a technical perspective
- Demonstrated superior analytical and problem-solving skills by executing requirements in approachable ways and extracting crucial information for exhibition components from concept
  Tech: HTML5, CSS, JavaScript, Bootstrap, jQuery, Photoshop

Software Developer Intern, Si-Tech Information Technology Co., Shanxi, China   Jan 2017 – Apr 2017
- Migrated C-based backend web services to Java for China Mobile Desk internal system by mimicking code logic
- Constructed SQL queries in modifying existing data process logic and in manipulating customer accounts data
- Designed unit tests to ensure smooth data transmissions and flow for HTML-backed procedures
- Executed quality assurance tests for credit-based client classification processes to identify and log route cause
- Evaluated the operational feasibility of software by examining the problem, requirements, and solutions
- Performed regular maintenance on software to ensure all functionalities run smoothly during daily operations
  Tech: Java7, HSF, SQL, Oracle, XML, Eclipse

RELEVANT PROJECTS

GoGrad
- Developed an Android application called GoGrad that allows students to keep track of their completion of the degree and provides a list of suggested courses for each individual
- Designed and implemented the user interface of the application using material design guidelines
- Implemented one key functionality that provides suggested courses
- Designed the integration tests to ensure that the application works for each scenario
  Tech: Android Studio, Sketch, XML, Java, SQLite

IntegrityMatters (IELA Awards: Winner, Mobile Learning – 2018)
- Designed and developed two games on the IntegrityMatters app using jQuery, DOM, CSS, and HTML5
- Implemented multi-languages version using XML
- Collaborated with other project leads to gather requirements and release planning
- Performed testing on both Android and IOS devices
  Tech: HTML5, CSS, JavaScript, Bootstrap, jQuery, DOM, XML

Sorcery
- Spearheaded the project by coding 70% of the Hearthstone like game using C++ including the framework and core functionalities
- Developed effective leadership skills through delegating the project to other group members
  Tech: C++, UML, observe pattern, decorator pattern, data structures