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| **BEIBIN LI** | | | | | | |
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| **EXPERIENCE** | **Yale University School of Medicine** | | | August. 2015 - Now | | |
|  | *Research Fellow at Child Study Center* | | | | | |
|  | * Design Eye Tracking systems by using Presentation, SR Study, Eye Tribe, Arduino, etc. * Use C++ on Virtual Reality Projects; use Python and Matlab to analyze data | | | | | |
|  | **University of Michigan Engineering School IA** | | | Jan. – May 2015 | | |
|  | *EECS 376 Instructional Aide (IA)* | | | | | |
|  | * Taught Discussion sections on Finite Automata, Context Free Language, Turing Machine, NP problems, etc. * Held office hours, and answer questions in online forum. More than 10 students come to my office every hour * Designed section notes, homework and exams, and grade exams for more than 300 students | | | | | |
|  | **Transportation Research Institution, UM** | | | | May 2014 – April 2015 | |
|  | *Research and Teaching Assistant* | | | | | |
|  | * Collected transportation experiment data and use JMP and R to analyze * Designed visual roads for the driving recognition system using ISAT, so that experiment can be conducted * Taught students using software: Jack, Morae, Cogtool, and IMPRINT to practice human factor analysis | | | | | |
|  | **The Mathematical Contest in Modeling (MCM)** | | | | | Feb. 2014 |
|  | *Honorable Mention -“Best College Sports Coaches”* | | | | | |
|  | * Applied AHP (Analytic hierarchy process) to analyze the college sports data * Implement linear regression to compute the distribution variances of data using R * Coordinated with other group members | | | | | |
|  | **China Entrepreneurship Network, UM** | | | | | 2013 - 2014 |
|  | *Core Member in Marketing team* | | | | | |
|  | * Organized series of activities, such as China Business Challenge Competition and featured China Business Seminar, expanding brand influence of association | | | | | |
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| **EDUCATION** | **University of Michigan, Ann Arbor, MI** | | | | | |
|  | *Bachelor of Science in Mathematics and Computer Science* | | May 2015 | | | |
|  | * Overall GPA: 3.68/4.00 **|** University Honors | | | | | |
|  | **Course Highlights:** Adv.Object-Oriented Programming, Introduction to Algorithms, Computer Organization, Theory of Computation, Introduction to Database, Introduction to Computer Security. | | | | | |
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| **PROJECT** | **Meeting Manager (C++)** | Sept.– Oct. 2014 | | | | |
|  | * Designed a meeting management command line software by using classes for abstraction and encapsulation * Implemented linked-list, array, and string that behaved like build-in types; used strong exception guarantees * Managed dynamically allocated memory with copy and move construction and assignment | | | | | |
|  | **Medieval World Game(C++)** | Oct. - Dec. 2014 | | | | |
|  | * Developed a command line game that allows the player to create different characters and buildings * Applied C++ idioms and design patterns (MVC, Composite, factory, etc.) so new features can be added easily | | | | | |
|  | **Stock Exchange (C++)** | Mar. 2014 | | | | |
|  | * Designed an electronic exchange simulator by using priority queue to store buyers’ and sellers’ bids, * Stored each stock’s information using Hash-Table | | | | | |
|  | **Course Scheduler (C++)** | Feb. 2015 | | | | |
|  | * Completed back-end website design for students to schedule courses in the following year * Designed and implement algorithm in PHP, and import 10,000 courses into SQL database   Coordinated with front-end developers | | | | | |
|  | **StagePlay (Swift, in AppStore)** | | | | | |
|  | * An iOS Application for drama players to practice their lines and to collaborate with their partners * Main Feature: line-by-line display, performance recording, script editing, etc. Compatible with iPhone and iPad | | | | | |
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| **SKILLS** | **Language:** English (Fluent), Mandarin (Fluent), Cantonese; C++ (Fluent), SQL, Python, Swift, Matlab, R | | | | | |
|  | **Platforms:** Windows, Mac OS, Linux | | | | | |
|  | **Software:** Office, Xcode, Vim, Visual Studio, Eclipse, R, JMP, Matlab, Mathematica, SPSS | | | | | |