

BEIBIN LI

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EDUCATION

University of Michigan, Ann Arbor, MI

Aug 2013-May 2015

College of Literature, Science, and the Arts

Bachelor of Science in Mathematics and Computer Science

Overall GPA: 3.62/4.0 | University Honors

Course Highlights: Adv.Object-Oriented Programming, Introduction to Algorithms, Computer Organization, Theory of Computation, Introduction to Database, Introduction to Computer Security.

EXPERIENCE

University of Michigan Engineering School IA

Winter 2015

EECS 376 Instructional Aide (IA)

- Teach Discussion sections on Finite Automata, Context Free Language, Turing Machine, NP problems, etc.
- Hold office hours, and answer questions in online forum. More than 10 students come to my office every hour
- Design section notes, homework and exams, and grade exams

Transportation Research Institution, UM

May 2014 - Now

Research and Teaching Assistant

- Collect transportation experiment data and use JMP and R to analyze
- Design visual roads for the driving recognition system using ISAT, so that experiment can be conducted
- Teach 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

IT Specialist, Technology Service of University of Michigan

2013

- Assisted with diagnosis of operating system, software, device setups
- Provide software tutorial, troubleshooting and technical supports to faculties and students

PROJECT

StagePlay (swift, Objective-C, in AppStore)

- Design an iOS software for drama players, drama directors, presentation givers to prepare their
- Featured with line-by-line script display, videos recording, and cloud share service

Course Scheduler (html, PHP)

- Complete back-end website design for students to schedule courses in the following year
- Design and implement algorithm in PHP, and import 10,000 courses into SQL database
- Coordinate with front-end developers

Meeting Manager (C++)

- Design a meeting management command line software by using classes for abstraction and encapsulation
- Implement linked-list, array, and string that behaved like build-in types
- Manage dynamically allocated memory with copy and move construction and assignment
- Use both basic and strong exception guarantees

Medieval World Game(C++)

- Develop 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++)

- Design an electronic exchange simulator by using priority queue to store buyers' and sellers' bids,
- Store each stock's information using Hash-Table

SKILLS

Language: C/C++ (Proficient), SQL, Java, Python, PHP, Swift

Platforms: Windows 8, Mac OS, Linux

Software: Office, Xcode, Eclipse, Vim, R, JMP, Matlab, Mathematica