Jake Ma

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Dedicated and creative graduate student in software engineering with project experiences in Java and full-stack development. Seeking entry level software developer positions, bringing critical thinking, problem solving and communication skills to achieve technology goals.

Education

University of St. Thomas   **St. Paul, Minnesota**

M.S. in Software Engineering, GPA 3.78/4.0   *September 2016 – December 2018*

Core Curriculum: Database Management Design, DevOps and Cloud Infrastructure, Web Application Development, IoT

University of Minnesota-Twin Cities   **Minneapolis, Minnesota**

Bachelor of Art Mathematics, Bachelor of Science in Economics, GPA 3.36/4.0   *September 2012 – December 2015*

Core Curriculum: Algorithm and Data Structure, Theory of Probability and Statistics, Cryptology and Number Theory

Technical Skills

- Software: Java, C++, Python
- Web: HTML, CSS, JavaScript, PHP, AWS
- Framework: Bootstrap, JQuery, React
- Database: MySQL, MongoDB, Neo4j

Projects

Software Developing Projects (Java, Python)

- **Java (OOP):** *Oware Game*. Planned and built an abstract strategy game with multiple objects by drawing unified modeling language (UML) diagram and following Object-Oriented programming. Used Git as version control system.
- **Java (Data Structure):**
  - *Teri Tempus* solitaire game. Utilized random class, array stacks and linked lists to create a card game.
  - *Symbolic Polynomial Arithmetic* problem. Created singly linked circular lists and enhanced data addition and deletion convenience. Simulating the calculation process of polynomial equations.
  - Compiler's *Name Table*. Combined simple data structures (stack, binary tree) to build complex data structures. Emulated a compiler to check and access variables in different scope.
- **Python**: The *Dissociated Press Algorithm* from MIT. Created a program that allows user to randomize a source text.

Web Developing (HTML/CSS/JavaScript/PHP/SQL) - jakema2017.com

- Constructed a website using the Bootstrap 4 framework. Added animation effects using JavaScript frameworks.
- Back-end data exchange and storage: retrieve data from JSON files and store data in a database using SQL.
- Optimized the website to fit different screen sizes by practicing responsive design and mobile-first principle.
- Built cloud-based Linux instances, constructed public and private access structure and created relational database storage and cloud file storage on Amazon Web Services.

Professional Experience

Office of International Students and Scholars, University of St. Thomas   **St. Paul, Minnesota**

Student Worker   *January 2018 – December 2018*

- Worked with students to help them access different resources, set up appointments and answered walk-in questions.
- Well-developed communication and collaboration skills by helping international students with academic, campus life and immigration-related questions on daily basis.
- Performed variety office tasks including data entry, responding to phone inquiries and preparing official letters.
- Maintained and updated confidential student information and related paperwork using Optix Workstation database
- Developed reports, dashboards, and processes to continuously monitor student data quality and integrity in Salesforce.