

# Stephen Marquis

[StephenAlexMarquis@gmail.com](mailto:StephenAlexMarquis@gmail.com) • 480-338-3966 • Cleveland, Ohio

## EDUCATION

**Case Western Reserve University**  
BS in Computer Engineering

Cleveland, OH  
Expected May 2018  
**GPA – 3.74**

## RELEVANT COURSEWORK

Digital Systems Design; Logic Design and Computer Organization; Discrete Mathematics; Introduction to Data Structures; Introduction to Java; Introduction to Circuits and Instrumentation; Thermodynamics, Fluid Dynamics, Heat and Mass Transfer

## TECHNICAL SKILLS

Java, JavaDoc, JUnit, Verilog, Assembly, Design Architect IC, Flex/Actionscript3, MySQL, XML, MXML, Eclipse, Flash Builder, Tortoise SVN, JIRA, Microsoft Office, SolidWorks, Photoshop, Illustrator, Origin.

## EXPERIENCE

*iNet Public Safety, Phoenix, AZ*

May 2015 – August 2015

**Software Engineer Intern, Development Team**

- Worked in an object-oriented programming environment to provide a seamless, media-rich experience to the end user.
- Utilized JIRA bug-tracking to report and resolve critical bugs/features.
- Redesigned the product's mobile GUI, in accordance to design principles laid out by Google's Material Design, to provide a more familiar user experience.
- Developed Apache Ant scripts to automate the process of packaging and deploying the product to Android and IOS devices.
- Responded to customer issues/complaints in a fast-paced environment to provide seamless patches to critical errors.

*Phoenix Country Day School, Phoenix, AZ*

June 2012, 2013, 2014 – July 2012, 2013, 2014

**Summer Camp Counselor**

- Communicated with other counselors to plan and organize events for campers.
- Filed paperwork and completed other various office jobs.
- Assisted teachers in the classroom to ensure students understood concepts presented in class.

## PROJECTS

**Lead Programmer and Designer, Independent and class projects**

August 2014 – Present

- Designed the logic to control six tail lights on a Ford Thunderbird. Implemented in Verilog by utilizing a state diagram, state assignments, transition equations, and Karnaugh maps. Used test bench to ensure proper operation in the timing diagrams.
- Designed a guessing game where users had to predict what led will light up next. Used state machines, state assignments, transition equations, and Karnaugh maps in order to program the functions in Assembly.
- Designed a version of 2048 that included diagonal sliding and the ability to create any size grid using 2D arrays in JAVA.
- Designed a Huffman Encoder in JAVA using a min-on-top priority-queue to efficiently sort characters based on their frequency and then subsequently build a Huffman binary-tree.
- Wrote merge-sort, heap-sort, quick-sort algorithms, and a hash table with separate chaining from scratch in JAVA.
- Designed the underlying model for a simple programming language, similar to Scratch, with a strong emphasis on object hierarchy and inheritance in order to greatly reduce the amount of code written.

## LEADERSHIP

*Phi Kappa Theta Fraternity, Case Western Reserve University*

January 2016 – Present

**Administrator of Property,**

- Administrated several committee chairs in order to set specific goals for the semester and to create a plan to reach them.
- Communicated with the Vice President and the Treasurer in order to ensure committees were on track and within their budgets.

*Phi Kappa Theta Fraternity, Case Western Reserve University*

August 2015 – Present

**House Improvement Chair,**

- Formed a committee in order to create an action plan for the purpose of improving the chapter house.
- Managed and allocated a budget of \$20,000 for contract work, supplies, and equipment.
- Worked with contractors to fix electrical and structural issues with the house.
- Planned and managed roughly 250 hours of work sessions, over two weekends, for the purpose of painting the exterior of the house.

*Longboard club, Case Western Reserve University*

August 2015 – Present

**Public Relations Chair, Executive board**

- Managed social media accounts to inform members of meetings and events.
- Worked with graphic designers to create a logo in order to promote the club through t-shirts, stickers, and social media accounts.
- Worked with the executive board to help decide on club events and purchases.
- Promoted club events in order to help the club stay involved with the campus.

*The Academy Leadership Conference, Case Western Reserve University*

October 16, 2015 – October 18, 2015

**Participant,**

- Discussed issues present in the Greek community at a local and national level and their effects on the perceptions and members of the Greek community.
- Worked with faculty from the Greek Life Office at Case and other Greek members to discuss how we can create solutions to our local and national problems.