

Tyler M. O’Gara
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Seeking a challenging software development position at a progressive company where I will have an opportunity to contribute by utilizing and extending my software design and development skills.

Education

University of St. Thomas, St. Paul, Minnesota

- B.A. Computer Science, May 2017
- 3.2 Overall GPA
- Computer Science Club: Participated in weekly meetings with Computer Science professionals who shared their experience in the work force.

Relevant Coursework

- Object Oriented Design and Programming – Created a server that used a socket to socket connection to send and receive message objects.
- Data Structures – Created an event driven bank simulation in Java that analyzed customer wait time using linked lists and priority queues.
- Computer Architecture – digital logic, machine data and instruction representations, computer arithmetic, instruction sets and assembly language, ALU and CPU design, pipelining, cache systems, memory, performance metrics, and parallelism.
- Operating Systems – Sequential versus concurrent processes, synchronization and mutual exclusion, memory management techniques, CPU scheduling, input/output device handling.
- Information Security – Format string vulnerabilities, SQL injection, CSRF, XSS, Buffer Overflows, Stack and Array bounds, Tor, PKE, Hash functions, Block Ciphers.
- Database Design - Data models used to structure the logical view of the database. Schema, subschemas, and database administration. Emphasis on general purpose relational database management systems using SQL. Created ERD’s and wrote queries for sample SQL databases.
- Algorithms – Greedy, divide and conquer, dynamic programming, graph and tree algorithms, and complexity.

Technical Skills

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|--------|--------------|------------|--------------------|
| ➤ HTML | ➤ JavaScript | ➤ Eclipse | ➤ SharePoint |
| ➤ UML | ➤ ERD | ➤ MySQL | ➤ Android |
| ➤ Java | ➤ SQL | ➤ InfoPath | ➤ Microsoft Office |

Work Experience

Cyber Security Intern

June 2016 –
August 2016

- *Supervalu, Eden Prairie, Minnesota*
 - Worked with members of the security team to gather detailed requirements to improve the usability and functionality of the corporate security review process.
 - Used SharePoint to create a workflow that allows security review requestors to submit review forms and get timely status notifications as well as allowing security team members to make updates to the review form.

Shift Lead

- *Subway, Rogers, Minnesota*
 - Greeted and served guests, prepared food, maintained food safety and sanitation standards
 - Supervised 2-4 other employees. Monitored employee performance. Ensured customer satisfaction.

June 2013 –
June 2016

Interests and Activities

- Sports: Hockey and Football
- Building Computers
- Raspberry Pi Projects