

# Résumé

# Ryan Mulcahy

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## Education

### Augsburg College, Minneapolis, MN

- Graduated *magna cum laude* in December 2012
- BS in Mathematics, Minor in Computer Science
- 4.0 Major GPA
- 3.64 Overall GPA
- Pi Mu Epsilon member
- Treasurer of Unbounded, the campus math club

## Experience

### Software Engineer -- March 2014-Present (1 year, 9 months)

Code42 Software, Minneapolis MN.

- Effectively collaborated as a member of an agile team to reliably deliver quality software on-time
- Participated in the SDLC from story-boarding through regression testing
- Designed, developed, documented and maintained high quality REST APIs
- Wrote unit, integration, and acceptance tests
- Updated load testing framework to support a more realistic environment
- Executed load tests to determine baseline performance metrics and identify problem areas
- Worked with a Distinguished Engineer to identify redundant DB queries in production, remove them and implement a caching layer to dramatically reduce DB load
- Implemented two-factor authentication server-side
- Reviewed team member's code, gave and received feedback as needed
- Mentored junior developers and coworkers, promoted a learning environment

### Undergraduate Research Assitant -- June 2012-July 2012 (2 months)

NSF-REU in Dynamical Systems and Extremal Graph Theory,  
Rochester Institute of Technology, Rochester, NY.

- Researched the bifurcation structure of the Lang-Kobayashi model of delay differential equations
- Presented results at the Joint Math Meetings in San Diego, Jan. 10, 2013
- Supervised by Dr. Tamas Wiandt, Associate Professor of Mathematics at RIT wiandt@rit.edu

### Supplemental Instructor -- 2011-2012 (1 year)

Augsburg College-Math Department, Minneapolis, MN.

- Facilitated individual and group sessions
- Interviewed students to identify gaps in their knowledge of course material
- Delivered review lectures to students to fill these gaps
- Presented difficult concepts in alternative ways to encourage understanding
- Paid close individual attention to students
- Provided a comfortable and supportive learning environment and encouraged students to ask questions
- Facilitated in-class lab sessions and assisted professors in presenting material to students
- Tutored for several undergraduate math courses including:
  - MAT 145 Calculus I
  - MAT 146 Calculus II
  - MAT 114 Precalculus
  - MAT 137 Mathematics/Elementary I

### Resident Advisor -- 2011-2012 (1 year)

Augsburg College-Department of Residence Life, Minneapolis, MN.

- Helped facilitate the college transition for first-year students in the following ways:
- Got to know residents as individuals and generated enthusiasm
- Created a floor community
- Encouraged residents to respect one another and get involved with floor, hall, and area activities
- Planned, organized, and executed bimonthly programs including dances, movie nights, study sessions, athletic events, and many more
- Provided detailed information about campus resources including academic assistance resources, counselling services, recreational facilities, and other on campus student resources
- Enforced campus policies and regulations
- Held weekly office hours and on call shifts
- Conducted weekend rounds of each resident hall on campus to ensure the safety of residents
- Reconciled room-mate conflicts and disagreements

## Skills

Java   SQL   Unix   Eclipse   HTML   CSS   Ruby   Groovy   Clojure