**Zachary M. Halpern**

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**TECHNICAL SKILLS**

**Programming Languages:** JAVA, PHP, HTML, PYTHON, and SQL

**Interests:** Backend security, encryption, and troubleshooting

EDUCATION

**Binghamton University**, State University of New York    Aug. 2015 – Present

* Scholars Program – Top 2.9% of the University
* Freshman Research Immersion Program – 20 students accepted from the Freshman class
* Bachelors of Science in Computer Science – GPA: 3.77

Roslyn High School, Roslyn Heights, NY Sep. 2011 – Jun. 2015

* Top 10% of the graduating class

**Nassau Community College**, Garden City, NY Jun. 2014 – Aug. 2014

* Completed advanced calculus to further mathematical background

**Johns Hopkins Center for Talented Youth**, cty.jhu.edu May 2013 – Sep. 2013

* Engaged in upper–level programming courses in Java

TECHNICAL EXPERIENCE

QA Lead & Developer – Cockatrice, www.github.com/Cockatrice/Cockatrice Jun. 2014 – Present

* Managing a testing division working to create an open sourced tabletop service
* Established a user base of over 250,000 registered players with at least 1,100 active players at any point in time
* Developing remedial features within the gaming client to enhance user experience

Website Developer – MTGHeadquarters.com Oct. 2013 – Dec. 2015

* Developed applications to enhance user experience for a popular Magic: the Gathering fan site with over 75,000 readers
* Worked to debug and streamline existing programs such as database structures and server logs

Virtual World Administrator – Formerly Chobots.net Sep. 2011 – Apr. 2014

* Managed and operated a high-level virtual world of over 60,000 users seven days a week, leading and coordinating a team of 32 employees in multiple fields, such as moderation, development, design, and support
* Under my management, tens of thousands of dollars were raised over the lifespan of the project through sales of virtual items, premium membership, and in-game currency

**WORK EXPERIENCE & EXTRACURRICULARS**

**Emergency Vehicle Operator**, Vestal EMS; Vestal, NY Dec. 2015 – Present

* Volunteer ambulance driver and training medic for the greater Vestal/Binghamton area

**Professional Researcher**, Binghamton University; Binghamton, NY Aug. 2015 – Present

* Project revolves around how to effectively and efficiently count people in a crowded situation
* Ability to communicate and work within a team to achieve a common goal of solving our research question
* Presented scientific poster as a team to a large group of critics and received feedback

Lifeguard, The Park at East Hills; Roslyn, NY Summers 2013 – Present

* Taught private swimming lessons to children aged 5 through 13
* Ensure safety of public at recreational facilities and how to professionally interact with them in times of emergency

**Special Needs Tutor**, Long Island, NY Sep. 2011 – Present

* Tutored special needs children in all core subjects up to 12th grade studies
* Worked on specialized learning through alternate methods to better engage students
* Remote sessions while away at college to keep students on track

**Little League Umpire**, Roslyn, NY Sep. 2010 – May 2015

* Promoted to League Commissioner in Mar. 2015 for the 3rd through 5th grade division
* Worked to minimize delays, organize schedules for teams and officials, and arrange training sessions