Eryk Banatt

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Work Experience

Junior Trading Operations Support Specialist   October 2017 – Present

Miami International Holdings Inc., Princeton, NJ

- Wrote test cases to debug new and existing features in exchange matching engine software
- Certified trading firms for all available functionalities in MIAX Options and MIAX Pearl
- Provided trade support for firms trading options on MIAX exchanges

Student Technician   January 2014 – August 2017

Yale Information Technology Services, New Haven, CT

- Performed hardware repairs and regularly updated end-users on their computers
- Provided remote support, including configuring VPN, multifactor authentication, and networking

Network Operations Intern   June 2016 – August 2016

High Point Solutions, Sparta, NJ

- Project lead in writing Groovy scripts for LogicMonitor software, provided cost/benefit analysis for device management

Projects and Organizations

Making Sense of Melee, *Independent Project*   January 2018

- Longform statistics / data analytics project using data from Super Smash Brothers tournaments
- Writeup received 50,000 hits and reached #6 on *Hacker News*
- Explored flaws in commonly-used rating systems such as ELO, glicko-2
- Analyzed efficacy of Melee National Seeding
- Used data to assess probability of victory between players given character, skill level, etc

Input Latency Perception in Expert-Level Gamers, *Senior Thesis Project*   May 2017

- Programmed a double-blind input latency perception task using an Arduino microcontroller
- Travelled to gaming tournaments and tested high-level tournament players
- Compared results to a control population of undergraduate students
- Demonstrated a statistically significant ($P = 0.0008$) between the groups

SSBM Bracket Projection, *Independent Project*   September 2016

- Used a webscraper to make a SQLite database of results from Super Smash Brothers tournaments
- Used scikit-learn to build a classifier to predict wins and losses based on past data
- Performed analytics on relevant trends with Matplotlib
- Outperformed projections done by smash.gg

Founder and President, *Yale Undergraduate Super Smash Brothers Club*   June 2014 – August 2017

- Founded a group with a membership of 1 in 24 Yale Students
- Captained an intercollegiate team ranked top 4 in New England
- Hosted and organized weekly meetings, tournaments, and larger events at Yale
- Coordinated trips to tournaments across the east coast

President, *Yale College Chess Club*   August 2013 – August 2016

- Oversaw meetings 1-3 times per week
- Compete in tournaments and organized teams to represent Yale

Skills and Coursework

Languages and Technologies: Python, Javascript, Java, C, Scheme, HTML/CSS*,* Linux/Unix, Git version control, SQL/SQLite, VMware, Scripting/automation, Excel w/ Pivot Tables, R

Selected Coursework: Artificial Intelligence, Language and Computation, Intelligent Robotics, Computational Vision & Biological Perception, Mathematics for Computer Science, Algorithms

Education

Yale University, New Haven, CT   Class of 2017

- B.A. Cognitive Science, Expertise and Expert Performance