Alexander Friedrich Nordin

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Education

Massachusetts Institute of Technology **2017 - 2018**
GPA: 5.0/5.0 **Cambridge, MA**
- Candidate for M.Eng. in Electrical Engineering and Computer Science with a focus in Artificial Intelligence

Massachusetts Institute of Technology **2013 - 2017**
Major GPA: 4.6/5.0 **Cambridge, MA**
- BS in Electrical Engineering and Computer Science
- Selected Coursework - *Advanced Natural Language Processing, Performance Engineering of Software Systems, Machine Learning, Artificial Intelligence, Computation Structures, Algorithms, Software Construction*

Experience

MIT Data to AI Lab **Sept. 2017 - Present**
Artificial Intelligence Researcher **Cambridge, MA**
- Leading the effort to build a system that can generate relevant prediction problems for a given dataset.

Queensland Brain Institute **Summer 2017**
Computational Analysis Researcher **Brisbane, Australia**
- Worked with data obtained from zebrafish brain monitoring to better understand how information flows through the brain.
- Performed quantitative analysis on a large-scale time-series data set to find causal temporal relationships in neuron activity. We found that there is no evidence of a causal temporal relationship.

Akuna Capital **Summer 2016**
Trading Strategy Intern **Chicago, IL**
- Trading algorithm is now active in the market using the firms money as capital and making a profit.
- Built a framework and developed trading strategies to trade the VIX based on a proprietary signal. Back-tested with two years of data and confirmed reliability with an out of sample test.

Goldman Sachs **January 2016**
Private Wealth Management Strategy Intern **New York, NY**
- Created portfolio analysis tool to allow bond traders to track relative performance of their accounts and block out various performance influencing factors to allow traders to better understand their current positions.

Oracle **Summer 2015**
Data Analytics Intern **Redwood Shores, CA**
- Optimized environment usage for sales demos highlighting inefficiencies saving Oracle hundreds of thousands of dollars. Work was presented to the president of Product Development and implemented.
- Performed analysis to determine if using Akamai to decrease server response time would be wise. Analysis revealed a 40% speed improvement when using Akamai. My team then began using Akamai.

Leadership and Activities

Gordon Engineering Leadership Program **2016 - 2018**
Team Coach
- Student and leader within a selective leadership training program.

MIT Men's Rugby Club **2015 - 2017**
Executive Board Member, Co-Recruitment Chair (2017)
- Defined new ways of both recruiting and actively retaining members.

Kappa Sigma Fraternity – Gamma Pi Chapter **2013 - 2017**
Social Chair(2015), House Manager(2016)
- Social Chair: Managed a $10,000 budget and organized events throughout the semester.
- House Manager: Maintained and oversaw all repairs to the house.

Projects

Predicting Stock Market Shifts using Market Sentiment **Spring 2017**
- Used sentiment analysis on articles published from major newspapers and social media to predict shifts in the S&P 500. Explored the impact of the market sentiment on major market shifts.

Memory Management for the C-Language **Spring 2016**
- Built the memory allocation, de-allocation and re-allocation functions in C.
- Performance benchmarked to 91%, average of throughput and efficiency scores, of the current libc implementation.

Skills

Python, C, C++, Java, HTML, CSS, JavaScript, VBA.

Personal

Attended schools in the US, Japan, Switzerland and Canada. Lived for a year on sail boat with family in Mediterranean, Atlantic and Caribbean. Member of Kappa Sigma Fraternity.