

# Kevin Esslinger

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## Relevant Experience:

### **Flow Traders**

Amsterdam, The Netherlands

*Graduate Software Developer*

September 2023 - Present

- Implemented a novel quoting strategy to increase trade volume by millions of dollars per day
- Optimized docker containers and resource initialization resulting in 300% faster startup times using Prometheus metrics and Grafana dashboards to monitor results
- Gathered requirements and discussed project details with traders, risk analysts, product managers, and senior developers

### **Northeastern University**

Boston, MA, USA

*Research Assistant*

September 2020 - April 2022

- Created a novel neural network architecture using transformers as history encoders in reinforcement learning to solve partially observable markov decision processes
- Utilized high-performance cluster and slurm to conduct experiments in parallel to optimize research workflow and run 80x more tests in less computation time
- Presented and discussed research ideas in weekly reinforcement learning reading group meetings to generate collaborations and future research projects

### **Amazon.com, Inc.**

Seattle, WA, USA

*Software Development Engineer Intern*

May 2019 - August 2019

- Designed and implemented a native AWS service to validate revenue reports for Kindle publishers
- Developed Java interface to allow other teams to incorporate my AWS service into their software
- Collaborated with senior management to leverage my project for multi-team operation

## Education:

### **Northeastern University**

Boston, MA, USA

Master of Science in Computer Science

December 2022

GPA: 3.89/4.0

### **Temple University**

Philadelphia, PA, USA

Bachelor of Science in Computer Science and Mathematics

May 2020

GPA: 3.94/4.0, Summa Cum Laude

## Open-Source Projects:

Bot-Be-Named (Python, PostgreSQL)

- Led a small team of python developers creating a custom Discord bot with multiple functionalities
- Incorporated feedback from more than 200 active users to heighten the user experience

Pottamon.com (JavaScript, React)

- Hosted single page web app incorporating custom animations and original interactive games
- Collaborated with artists and game designers to integrate art and minigames into the website

## Publications and Presentations:

- Deep Transformer Q-Networks for Partially Observable Reinforcement Learning. **Kevin Esslinger**, Robert Platt, and Christopher Amato. Neurips 2022 FMDM Workshop. New Orleans, LA, USA

## Technical Skills:

**Programming Languages:** Python, Java, Go, JavaScript

**Tools:** AWS, Bamboo, Docker, Helm, Heroku, Grafana, Kubernetes, Prometheus, TravisCI, SQL