Jack Serrino

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EDUCATION

Massachusetts Institute of Technology, Cambridge, Massachusetts
- Master of Engineering in Electrical Engineering and Computer Science **Sep 2018 – Jun 2019**
  - Computational Cognitive Science Group. Advised by Josh Tenenbaum and Max Kleiman-Weiner.
- S.B. in Electrical Engineering and Computer Science **Aug 2014 – Dec 2017**
  - Cumulative GPA: 5.00 / 5.00, Concentration in Economics

WORK EXPERIENCE

HRT Research (Hudson River Trading, LLC.), New York, NY
- Algorithm Engineer **Aug 2019 – Present**

Google, Inc., New York, NY
- Software Engineering Intern, Google Assistant **May 2017 – Aug 2017**
  Don Quixote (Language Modeling Research Team)
  - Developed a parallelized speech recognition system to improve the prediction accuracy of low-probability entities.

Benchling, Inc., San Francisco, CA
- Software Engineering Intern **May 2016 – Aug 2016**
  - Built DNA subsequence auto-detection, allowing Benchling to auto-detect user-uploaded DNA sequences with - gene, promoter, inhibitor, etc. parts.

Jane Street Capital, LLC., New York, NY
- Trading Intern **Jan 2016**
  - Developed trading knowledge through mock trading sessions. Analyzed market trends based on live data.

Twitter, Inc., San Francisco, CA
- Software Engineering Intern **May 2015 – Aug 2015**
  - Created a tool that can modify the front page of Twitter to suit dynamic needs per country.

PAPERS

Finding Friend and Foe in Multi-agent Games
- Serrino, Kleiman-Weiner, Parkes, Tenenbaum. Accepted and presented at NeurIPS 2019 (spotlight presentation, top 2% of submissions)
- Introduces DeepRole, an algorithm combining CFR and neural networks to achieve human-level performance in The Resistance: Avalon.

Contextual Recovery Of Out-of-lattice Named Entities In Automatic Speech Recognition
- Serrino, Velikovich, Aleksic, Allauzen. Accepted and presented at INTERSPEECH 2019 (oral presentation).
- Uses acoustic and contextual clues in the output of word-lattice-generating speech recognition system to perform named entity recognition and recovery.

SIDE PROJECTS

Selera Cryptocurrency **Jan 2018 – Jun 2018**
- Scalable Bitcoin/Ethereum. With 4 others, designed a high throughput, trustless, secure protocol to scalably send money. Est. 2000+ TPS with commodity hardware and many nodes. Cumulatively wrote 20,000 lines of Go code. Code available upon request.

Magic Mailbox **Jul 2018 – Present**
- Twilio for E-mail. An API for developers enabling e-mail conversations. REST API and web-hook based. Custom infrastructure built to support e-mail receipts and replies. Private beta, public launch at HackMIT 2018.

Spout Money **Jul 2018 – Present**
- Xero for small teams. Money management software for organizations with high turnover. Expense tracking, line-item reconciliation, budgeting, and invoicing. Private beta.

Redisred **Jun 2015 – Present**
- Open-source Go links. A small Redis-based URL Redirector. Useful for teams who share long, hard-to-remember links around their team.

AFFILIATIONS

MIT Pokerbots
- President **2019**

Eta Kappa Nu National EECS Honor Society
- President, MIT Chapter **2017 – 2018**

Tau Beta Pi National Engineering Honor Society
- Member **2017 – 2018**

MIT TechX, Cambridge, MA
- DevOps Director, SpecialX Director **2015 – 2017**

SKILLS

Python, C++, Go, Scala, Javascript, Microsoft Excel, Microsoft PowerPoint, Microsoft Word, LaTeX, AWS, Redis, PostgreSQL, MySQL, Chinese