Sean O'Connor

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Project Demos + Tech Blog oapostrophe.github.io

Education

Pomona College   *Graduating May 2022*
BA, Computer Science (3.9 GPA)   Claremont, CA
Select Courses: Computer Systems, Neural Networks, Linear Algebra, Data Structures, Theory of Computation

Skills

Highly Skilled: Leadership, Cross-Functional Communication
Proficient: Java, Python, Javascript, FastAI, Flask, SQL, Data Science, UX Research
Prior Experience: Spark + Hive, Haskell, Scala, C, Linux + Bash, MatPlotLib, Pandas

Industry Experience

Indeed (Targeted Ads)   *May-August 2021* (3 months)
Software Engineer Intern   Seattle, WA
- Researched, developed, and deployed a segmentation algorithm **classifying ~100 million users per day.**
- Collaborated with Ads Infrastructure team to design a system for persisting segments in a low latency key-value store.
- **Drove a cross-team Machine Learning experiment** introducing segment features to Indeed's Resume Search. The results projected a **3% increase in the product's key Positive Outcome**, one of the largest in recent history.
- Showcased my work in the Indeed Ads division's 50-person quarterly business review meeting.

Emergency Medical Services Organizations   *March 2015-July 2019* (4 yrs 5 months)
EMT (Team Lead)   Detroit, MI
- Led **cross-functional teams of 2-7 responders** to ~6,000 medical 911 calls on the busiest ambulances in the US.
  Received Detroit Fire Commissioner's Award for a dangerous, lifesaving rescue from a car crashed into a building.

Academic Experience

Pomona Autonomous Robotics Lab   *January 2021-May 2021* (4 months)
Research Assistant   Remote (Seattle, WA)
- Developed a language that **shortens XML robotics simulation code by 92%.**
- Built a Javascript app that parses input to a context-free grammar, translates to XML, and generates a 3D visualization.

Pomona Computer Science Department   *September 2020-May 2021* (9 months)
Teaching Assistant   Remote (Seattle, WA)
- **Led weekly 10-15 student mentorship sessions** explaining technical concepts and debugging assignment code.

Pomona Privacy and Security Lab   *June-August 2020* (3 months)
Research Assistant   Remote (Seattle, WA)
- Led a team of 3 researching the UI design of California Consumer Privacy Act (CCPA) opt-outs.
- Developed a Python + Flask backend to A/B test CCPA designs. **Deployed experiment website to 4,357 users.**
- Analyzed results and **submitted a paper as first author** to a major peer-reviewed conference (review pending).

Projects

Novel Image-Based Heart Attack Detection *(Academic) - Python, FastAI*   *Spring 2021*
- Created a proof-of-concept for a neural net classification method that could **reduce heart attack mortality by 50%**.
- Simulated 21,000 EKG images from numeric records. Trained a convolutional neural net to 90% accuracy / 71% recall.

Who's Selling My Info? *(Independent) - Javascript*   *Fall 2020*
- Developed a browser extension that **detects hidden data sale opt-outs** during browsing. When found, the extension generates a notification linking to the opt-out. Achieves 92% recall / 100% precision on top 100 US homepages.