

TECHNICAL WORK HISTORY

Coyn San Francisco, CA
Co-Founder & CTO Apr 2018 – Current

- Executed market making and arbitrage strategies and simulated forex binary options
- Designed a real-time price graph driven by a high-throughput layer of networked relays
- Generated real time metric visualizations (e.g. volume, profit, slippage) for investors
- Advised engineers who integrated exchange APIs
- Implemented continuous deployment and automated provisioning on AWS

Apollo.io San Francisco, CA
Software Engineer Mar 2017 – Apr 2018

- Developed web scrapers to update our database of over a hundred million people
- Led a team of engineers to develop a predictive scoring system that ranks companies by how likely they will close a deal with our clients
- Handled candidate sourcing, conducted interviews, and streamlined outreach methodology; recruited a key engineer who filled a major skill gap on our team
- Increased sales and retention by syncing client data with Salesforce and HubSpot

Google Mountain View, CA
Software Engineer Feb 2015 – Mar 2017

- Reduced CPU usage by 75% by caching a critical data serving platform
- Rectified corrupted metadata, saving key partners 30 hrs/week of work each

Naval Research Lab - Applied AI Researcher May 2014 – Aug 2014

- Developed intelligent control systems for autonomous underwater vehicles

Los Alamos National Lab - Computational Earth Scientist Jan 2011 – June 2011

- Developed a post-processing tool for debugging, interpreting, and visualizing simulations: a tool that is still being used and maintained to this day.

INDEPENDENT PROJECTS

Created a food web simulation to test a variety of predator/prey strategies, including hard coded, reinforcement learning, and neural net strategies (2017-2018)

Developed an intelligent agent that uses computer vision to play a mobile game (2014-2017)

Used computer vision to navigate and track entities in a multiplayer game (2011-2013)

Created a Q-learning agent that continuously tests and optimizes attack targets (2012)

SKILLS

Programming Languages: Java, Kotlin, Ruby, C++, Python, Javascript

Frameworks/Tech: React, Redux, AWS (EC2, S3, CodePipeline), SQL, NoSQL, Rails, MongoDB, ElasticSearch, Datadog, Protobufs, BigTable, Spanner, MapReduce, Flume

EDUCATION

Lehigh University - Fellowship in Computer Science - 3.90/4.00 2013 - 2014

Elizabethtown College - BS in Math and Physics - 3.94/4.00 2009 - 2013