Michael Sze-Yu Cheung

San Francisco, CA

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TECHNICAL WORK HISTORY

• Coyn Co-Founder & CTO San Francisco, CA

Apr 2018 - Current

- Analyzed live and historical exchange rates while factoring sources of market friction to leverage market making and arbitrage opportunities and simulate forex binary options
- Generated real time metric visualizations (e.g. volume, profit, slippage) for investors
- Sourced and advised engineers who integrated exchange APIs
- Automated the provisioning and deployment process on AWS
- Reduced staleness by using a network of slaves and async processing

Apollo.io

San Francisco, CA

Software Engineer

Mar 2017 – Apr 2018

- 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 that filled a major skill gap on our team.
- Increased sales and retention by integrating with a popular marketing site's API

Google (YouTube)
Software Engineer

Mountain View, CA

Feb 2015 – Mar 2017

- Reduced CPU usage by 75% by caching a critical data serving platform
- Rectified bad metadata, which saved at least one of our partners 30 hours/week of work
- Naval Research Laboratory 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 that is still used and maintained to this day, eight years later.

INDEPENDENT PROJECTS

- Created a food web simulation to test a variety of predator/prey strategies. These include 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)
- Designed a computer vision algorithm to track entity positions in an MMORPG (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/Technologies: React, Redux, AWS (EC2, S3, CodePipeline), Ruby on Rails, MongoDB, ElasticSearch, Protocol Buffers, 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