

Michael Sze-Yu Cheung

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TECHNICAL WORK HISTORY

- **Coyn** San Francisco, CA
• **Co-Founder & CTO** Apr 2018 – Current
 - Leveraged market making and arbitrage opportunities and simulated forex binary options by analyzing exchange rates while factoring sources of market friction
 - Real-time price graph driven by high-throughput layer of networked relays
 - Generated real time metric visualizations (e.g. volume, profit, slippage) for investors
 - Sourced and 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
 - 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 (YouTube)** 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)
- 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/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