

# AARON YAO-SMITH

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Education	<b>Cornell University, Ithaca, NY</b> Computer Science, B.S. May 2021, GPA <b>3.804 / 4.000</b> Data Structures & Funct. Progr. (CS 3110) · Algorithms (CS 4820) · Syst. Progr. (CS 3410)	August 2017 - Present
Experience	<b>CoinFund LLC</b> Software Engineer Intern <ul style="list-style-type: none"><li>· Architected/developed new trading automation systems (<b>Golang, Apache Kafka</b>)</li><li>· System enables generalized automated strategy, replacing manual trading; reducing trading workload overhead by ~5 hours/workweek, and enabling short-term strategy</li><li>· Maintained CI/CD to minimize time-to-market of new strategies (<b>CircleCI, Docker</b>)</li><li>· Wrote infrastructure to pipeline and collate trade information from ~10 external HTTP/WS APIs to 1 endpoint in analysts' spreadsheets (<b>Python, Postgres, FRP</b>)</li></ul>	May 2019 - August 2019 <i>New York, NY</i>
	<b>Singer Lab, Harvard Medical School</b> Research Assistant, Computational Biology <ul style="list-style-type: none"><li>· Created COMET, a biostatistical analysis tool using novel statistical methodologies</li><li>· Tool predicts cell cluster using single-cell RNA sequencing data with &gt;20% predictive error reduction over traditional t-test methods (<b>Python pandas, matplotlib</b>)</li><li>· Optimized algorithm continually: reducing &gt;6 hour runtime down to 6 minutes</li></ul>	May 2018 - January 2019 <i>Boston, MA</i>
Projects	<b>‘COMET: Identifying candidate marker panels.’</b> github.com/aaronyaosmith/comet-prototype <ul style="list-style-type: none"><li>· Independently architected tool designed for use by cell biology researchers. Open beta available at cometssc.com. (<b>Flask, Python pandas, matplotlib</b>)</li><li>· Publication accepted in Molecular Systems Biology, presented poster at <b>conference</b></li></ul> <b>‘Incentive compatible disclosure’ marketing study</b> github.com/aaronyaosmith/icd-survey <ul style="list-style-type: none"><li>· Independently implemented study as part of collaboration across 3 universities; interaction between subjects via web interface (<b>Django, Python otree</b>)</li><li>· Deployed to production single live experiment of 300 subjects in 2 hours (<b>Heroku</b>)</li></ul>	2019    2018
Leadership	<b>Operations/Tech Chair</b> Cornell Taiwanese American Society <ul style="list-style-type: none"><li>· Oversee event setup/teardown, online presence: for club of 30 actives, 1300 on listserv</li></ul> <b>Subteam Lead/Project Manager</b> AIDE, AguaClara Cornell <ul style="list-style-type: none"><li>· Project manager for team of 4 handling overall direction and delegation</li><li>· Maintained parent team of 15's codebase CI/CD (<b>Travis, AppVeyor</b>)</li></ul>	May 2019 - Present   December 2018 - June 2019
Skills	Languages: Go · Python · JavaScript (ES6, TS) · HTML · CSS · Java · C · C++ · OCaml · SQL Tools: Flask · Django · Node.js · React · Apache Kafka · Docker · AWS Terraform · Packer · CircleCI · Heroku · PostgreSQL	
Other interests	Delta Kappa Epsilon (PC President) · Guitar/Voice · Cycling	