

AARON YAO-SMITH

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