

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 cometsec.com. (Flask, Python pandas, matplotlib)· Presented poster at conference, paper in review after minor revisions ‘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	