

LANE MCHUGH MILES

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A recent grad passionate about writing software that solves complex problems and improves people's lives.

EDUCATION

Pomona College | Claremont, CA.

Class of 2017

BA, Computer Science

Honors: *summa cum laude* (GPA: 3.98/4), Phi Beta Kappa

SKILLS

Languages: (*Experienced*) Ruby, Python, Scala, Java. (*Familiar*) SQL, C, JavaScript, Haskell, PHP, HTML, CSS.

Frameworks/Applications: Ruby on Rails, Django, Postgres, Nginx, Unicorn, Jetty, Git.

Leadership: 3x speaker at Meraki's "Engineering Meetup." Organized 10-week Computer Networking study group. Actively involved in University recruiting/interviewing. Planned office-wide Pride Month activities.

SELECTED EXPERIENCE

Software Engineer | Cisco Meraki

August 2017 - Present

- Reduced bandwidth usage of database backups by ~60% (saving 650TB/month in data transfer) by designing write-ahead-log-based backup service for in-house time-series database
- Revamped monitoring of node-to-backend service by expanding number of nodes under test by 1000x, increasing granularity of gathered metrics, and displaying historical data for additional context
- Re-factored legacy alerting service to reduce rate of improperly sent customer alerts and wrote short- and long-form documentation of alerting infrastructure
- Created Ruby abstractions for on-disk representation of time-series database, decreasing amount of domain-specific knowledge needed for development and increasing testability
- As an active member of LGBTQ ERG (QFAM), recruited at Lesbians Who Tech and advocated for increased group presence during new hire onboarding

Software Engineering Intern | Bloomberg LP

Summer 2016

- Led effort to integrate newly-acquired financial dataset into the Bloomberg Terminal
- Built "PivotTable"-like capabilities to enable filtering, summarizing, and re-structuring of new data
- Designed indexer to reduce disk reads when loading contiguous subsets of raw data from data files
- Helped test internal tooling allowing for Python instead of C++ development

Software Engineering Intern | Quorum Analytics

Summer 2015

- Led development of campaign finance platform: created API for scraping, cleaning, and parsing tens of millions of records from the Federal Elections Commission
- Designed custom edit distance metrics and used Random Forest Classification to match contributions to known entities despite imperfect data, achieving a >95% success rate
- Reduced search time up to 25x by rewriting inefficient SQL queries and adding appropriate indexes

SELECTED PROJECTS

PoliBet | AWS-hosted Rails app for scraping, storing, and analyzing political betting market data.

2018

DSFViz | Ruby project visualizing different implementations of algorithms on disjoint-set forests.

2018

CVHub | Django app for crowd-sourced resume editing with "version control."

2016-17

OTHER INTERESTS

FiveThirtyEight & NYT's The Upshot. Tottenham Hotspur & the Baltimore Orioles. American politics & law.