David Ly

☎ 510-828-9675 | ✉ david.ly@berkeley.edu | 🏠 davidmacly.dev | ⓖ david-ly | ⓛ david-mac-ly

Experience

LogDNA n.k.a. Mezmo | *Software Engineer II*   Jan 2022 - Jun 2022 | Remote

- Handled code review prioritizing areas of expertise with greater discretion in ensuring solutions focused on: maintainability, implementation efficacy, alignment with best practices, consistent style/linting, & standardized usage patterns
  Provision API [Node.js]
- Aided in building a fully fledged provisioning API, spurred by & intended for enterprise use, which aligned with simultaneous RBAC work to scaffold a hierarchical management structure supported with inheritable & reusable components
  Terraform Provider/Plugin [Node.js + Go(lang)]
- Worked on our custom Terraform provider to align its resources towards consistency with the views & alerts API schema
- Updated much of the Terraform plugin's codebase for better CRUD parity & added support for Slack alerts integration

Software Engineer I   Jan 2020 - Dec 2021 | Remote

- Fulfilled on-call developer duties via debugging culpable code, deploying hot-fixes, rolling back faulty releases, etc
- Pushed for a new on-call rotation system to more evenly distribute the workload across the entire development team
  OpenAPI Standardization [Node.js + Swagger]
- Advocated for the adoption of best practices for RESTful APIs & standardization across development & documentation
- Initiated the instrumentation of Swagger(hub) tooling to better align our documentation with the OpenAPI specification
  Elasticsearch Migration & Upgrade (v5.x -> v7.x) [Node.js]
- Refactored numerous jobs & workers, tailored for Elasticsearch, updating much of their core logic to facilitate the transition from tribe nodes to cross-cluster search & account for changes in their Query DSL (Domain Specific Language)
  Export API v2 [Node.js]
- Led development + documentation processes for the feature release of our v2 API letting users export their logs as JSON
- Leveraged the `search_after` parameter of Elasticsearch's API to offer native support for deep pagination thru results

LogDNA n.k.a. Mezmo | *Software Engineering Intern*   May 2019 - Aug 2019 | Mountain View, CA

- Targeted monitoring & observability into backend systems by instrumenting Prometheus clients to emit OpenMetrics
- Implemented & modularized archiving functionality for various storage providers (AWS S3, Azure Blob, IBM-COS, etc)
- Initiated the introduction of AWS Marketplace SaaS Subscription Services into our various integrated product offerings

Software Engineering Intern [Summer 2017]   Jun 2017 - Aug 2017 | Mountain View, CA

- Revamped an internal dashboard showcasing relevant metrics such as churns, trials, etc to boost sales team productivity
- Engineered a proof of concept for lead generation using Clearbit's API to access relevant company data & contacts
- Created cron|batch jobs to automate certain tasks on a regular basis (e.g., determining hourly/daily/monthly usage)

Student Affairs IT | *Network Engineering Assistant*   Mar 2016 - May 2017 | Berkeley, CA

- Assisted in maintaining network integrity & reliability across UC Berkeley's campus using a ticketing system (ServiceNow)
- Conducted WiFi surveys, repaired/patched hardwired connections, installed & troubleshooted network switches, etc
- Received training in network/security fundamentals such as the TCP/IP|OSI models, TLS/SSL protocols, etc

Skills

Programming Languages: Javascript (+ Node.js), Shell (Bash), Golang, HTML/CSS, YAML, Java, Python, C(#), SQL
Technical Background: Git, Unix, Kubernetes, Docker, MongoDB, Redis, Elasticsearch (& Lucene), Swagger (& OpenAPI), Prometheus (& OpenMetrics), Message Queues, Hashicorp Configuration Language (HCL), Terraform, Jenkins, CircleCI

Education

University of California, Berkeley   Berkeley, California
B.A. Cognitive Science (Computational Modeling Focus) | Minor in Computer Science   Aug 2015 - Dec 2019
Relevant Coursework: Data Structures, Computer Architecture, Computer Security, Operating Systems, Internet Architecture & Protocols, Efficient Algorithms, Database Systems, Artificial Intelligence, Blockchain Fundamentals