David Ly

Technical Generalist | Targeting [SWE/SDE/SRE], DevOps, NetEng, CyberSecurity, & IT-Adjacent Roles

🔗 david-mac-ly
⬡ david-ly
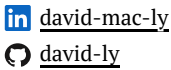
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Experience

Round1 Bowling & Arcade | Mechanic/Technician (Associate/Lead)   May 2024 - Present | Hayward, CA

- Troubleshoot mechanical/technical issues or errors related to various arcade games & bowling lanes [**GS-X** pinsetters / **Sync** scoring / **Pinball Wizard** bumpers] and facilitate parts orders/transfers for necessary components such as PC/PCB/PDB/PSUs, audiovisual equipment like (VR) headsets, switches (electronic/network), motors, sensors, solenoids, fuses, assemblies, & cabling/wiring/harnesses

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

- Handled code review prioritizing areas of ownership & domain expertise with greater discretion in vetting of: maintainability, implementation efficacy, alignment with best practices, consistent style/linting and standardized call/usage patterns
- Aided in building a fully fledged provisioning API, spurred by & intended for enterprise use, which aligned with simultaneous **RBAC** work to scaffold a hierarchical organization management structure with inheritable/resuable components
- Worked on our custom **Terraform** provider/plugin to align its resources towards consistency with our views & alerts API schema(s), updating much of the plugin's codebase for better **CRUD** parity, *and* added support for Slack alerting integration

LogDNA (n.k.a. Mezmo) | Software Engineer I   Jan 2020 - Dec 2021 | Remote

- Fulfilled on-call developer duties via debugging culpable code, deploying hot-fixes, rolling back faulty releases, providing incident mitigation assistance, etc and pushed for the adoption of a new rotation system to more evenly distribute workload across team(s)
- Advocated for the adoption of **REST**ful API best practices, standardization of development & documentation procedures, and initiated the instrumentation of **Swagger**(hub) tooling to align our technical API reference(s) with the **OpenAPI** specification
- Refactored numerous (`cron`)jobs & workers, tailored for **Elasticsearch**, updating much of their core logic to facilitate the transition from tribe nodes to cross-cluster search and account for changes in their Query DSL (Domain Specific Language)
- Led development & technical documentation for the feature release of our v2 API allowing users to export their logs as JSON; leveraging the `search_after` parameter of **Elasticsearch**'s API to offer native support for deep pagination through results

LogDNA (n.k.a. Mezmo) | Software Engineering Intern   May 2019 - Aug 2019 / Jun 2017 - Aug 2017 | 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

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- Revamped an internal dashboard showcasing relevant metrics such as churns, trials, etc to boost sales team productivity and engineered a proof of concept for marketing lead generation using **Clearbit**'s API to access relevant company data & contacts

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

- Assisted in maintaining network integrity/reliability across UC Berkeley's campus/residences via ticketing system (**ServiceNow**) and conducted WiFi surveys, patched wired connections, installed/troubleshooted networking equipment [APs, Extenders, Switches], etc

Skills

Programming Languages [Rank Ordered by Proficiency (Descending)] | Technical Background

JavaScript (& Node.js), TypeScript, Shell (Bash), Go(lang), HTML/CSS, YAML, Java, Python, C(#), SQL |, Git, Unix/Linux, macOS, Windows (Active Directory & Domain/Workgroups), TCP/IP|OSI Models, TLS/SSL Protocols, Virtualization (& Containerization), Kubernetes, Docker, MongoDB, Redis, Elasticsearch (& Lucene), Swagger (& OpenAPI), Prometheus (& OpenMetrics), Terraform, AWS, Azure, GCP, IBM Cloud, Jenkins, GitHub Actions, Test Driven Development

Education

University of California, Berkeley   Aug 2015 - Dec 2019

Cognitive Science [Computational Modeling Focus] (& Computer Science)   Bachelor's of Arts (& Minor)

Relevant Coursework: Data Structures (**CS61B**), Computer Architecture (**CS61C**), Discrete Math/Probability Theory (**CS70**), Computer Security (**CS161**), Operating Systems (**CS162**), Internet Protocols (**CS168**), Efficient Algorithms/Intractable Problems (**CS170**), Databases (**CS186**), Artificial Intelligence (**CS188**), Blockchain Fundamentals (**CS191**), Computational Models of Cognition (**CogSci 131**)

Calbright College | IT Support Program   CompTIA Associate+ (A+) | May 2024 - Present

Volunteering

Berkeley ANova | Site Leader (Fall '19), President (Spring '19), VP (Fall '18), DeCal Chair (Spring '18)   Sep 2017 - Dec 2019

- Provided CS education/mentorship to students attending historically under-resourced schools within the Bay Area
- Held general meetings tackling issues prevalent within the communities served (ex: gentrification, income disparity, etc)
- Managed several aspects of the club such as finances, transportation, and partnerships to maintain sustainability