David Lam

GitHub: https://www.github.com/lamdav
Website: https://www.lamdav.com   **Email**: inquiry@lamdav.com

Education:	**Bachelor of Science in Computer Science and Mathematics**	**May 2018**
	Minor: Data Science, Economics	**GPA: 3.89/4.00**

Rose-Hulman Institute of Technology
<u>Courses</u>: Intro to Hadoop Ecosystem, Design and Analysis of Algorithms, Graph Theory, DevOps, Data Structures and Algorithm Analysis, Machine Learning, Deep Learning, Advanced Git, Computer Network

Skills:

<u>Programing Language</u>: Go, Python, Java, JavaScript, SQL, Hive, Ruby, Perl
<u>Framework/Library</u>: React, Express, Gradle, Bazel, Spring Boot, Kubernetes, Helm, Terraform, AWS, Kinesis, Hadoop, Selenium, Tensorflow/Keras
<u>Core Competencies</u>: Distributed Systems Architecture, Technical Leadership, Cross-team Collaboration

Experience:

Uber, Sunnyvale CA   **May 2021-Present**
Software Engineer II (May 2021 – August 2022) | Rider Personalization   **Go**
Senior Software Engineer (August 2022 – Present)
- Technical lead and advisor for ML ranking integrations across 8 partner teams organization-wide
- Architected and scaled ML inference service handling 15k QPS with 33% latency improvement
- Co-led 2-year, 4-team architectural initiative resolving data consistency between client ETA/fare displays and ML systems
- Led personalization merchandising platform delivering 4% global gross bookings and 2% trip growth
- Built resilient microservices in Go using circuit breakers, timeout management, and fail-open patterns with DAG-based parallel execution
- Evangelized internal frameworks and drove technical adoption across engineering organization

UnifyID, Redwood City CA (acquired by Prove fka Payfone)   **March 2019-May 2021**
Software Engineer   **Go, Python, Kubernetes, Helm, Terraform, AWS**
- Implement and maintain core backend services powering real-time inference and model training
- Implement and maintain core efficacy measurement tooling for gait model-to-model analysis
- Implement and maintain ML tooling for gait model experimentation, analysis, visualization, and training
- Maintain and improve Kubernetes Infrastructure and robustness
- Perform Scale Testing with 5000 concurrent uploads per second and AWS cost analysis to support load
- Maintain Prometheus, CloudWatch and Grafana Monitoring and Alerting Infrastructure

Proofpoint, Sunnyvale CA   **August-March 2019**
Software Engineer   **Perl, Java, Python**
- Architected and implemented new condemnation pipeline to handle ~1.5 billion messages per day improving on the previous ~10k messages per day condemnation pipeline
- Updated legacy spam detection engine to handle multi-part HTML messages and CLEAR pipeline
- Improved URL Reputation REST service matching behavior, performance, and code quality
- Improved persistence guarantees and reliability of data provider powering most internal services

Projects:

RoseBuild   **August 2017-May 2018**
Project Manager/Core Backend Developer/CLI Developer   **Spring Boot, Java, Kubernetes, Python**
- Won Best Senior Capstone Project within the Computer Science department
- Programming-oriented classroom manager similar to Github Classroom integrated with Moodle
- Deployed and maintained a bare metal Kubernetes Cluster
- Rearchitected previous team's prototype to fit within a Kubernetes environment
- Wrote a python CLI using Click to help create, manage, and grade assignments