Jiale Lin

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Education

University of Colorado Boulder - Master of Science in Computer Science (May 2025)
University of Arizona - Bachelor in Mathematics (CS Emphasis) (May 2019)

Professional Experience

Aviatrix - Santa Clara, CA
Senior Software Engineer (2024–Present)
Senior MTS (2023–2024)
MTS (2022–2023)
• **Infrastructure & DevOps Automation:** Automated infrastructure with Terraform; operated Kubernetes across AWS, Azure, and GCP; built CI/CD with GitHub Actions, Jenkins, ArgoCD, and GitOps, reducing deployment time by 30%.
• **Observability:** Enhanced monitoring with Prometheus, Grafana, and DataDog; added CI/CD health signals and SLOs; reduced MTTR by 15%.
• **Security & Networking:** Built secure multi-cloud automation with TLS and Zero-Trust; implemented eBPF/iptables validation for firewall upgrades and DDoS mitigation; hardened supply chain with SBOM and policy gates.

Google Fiber (via Adecco) - Mountain View, CA
Test Engineer (Jun 2019 – Jun 2021)
• **Infrastructure & Monitoring:** Streamlined deployments with Docker and Kubernetes; implemented Prometheus/Grafana for real-time monitoring.
• **Test Automation:** Developed a Page Object Model framework with Selenium/WebDriver (Java) for Angular apps, reducing test failures by 25%.
• **Database Optimization:** Built BigQuery SQL objects (tables, views, macros, procedures), boosting query performance by 30%.

Veeva Systems - Pleasanton, CA
Software Development Engineer in Test (Aug 2021 – May 2022)
• **BDD Framework Development:** Implemented a cross-platform BDD framework using Kotlin, Cucumber, and Gradle; integrated with Jenkins CI to automate execution and expand coverage.
• **UI Test Automation:** Automated web UI with Selenium and native iOS/Android with Appium; integrated suites into CI/CD with dashboards and flaky-test quarantine.
• **Process Optimization:** Streamlined QA by refactoring suites and optimizing test cases, improving defect detection and reducing regression escapes.

Key Projects

• **AI-Powered Network Traffic Classifier** (C++, Python, TF/ONNX, eBPF, gRPC, K8s): Realtime packet/flow features via eBPF; ONNX model served over async gRPC on Kubernetes with rollout guards (shadow A/B, drift detection, canary). Qt6/Electron dashboard with rate/latency charts; CI for model eval (AUC/PR), onnxruntime CPU/GPU.
• **Graph-based Social Recommender** (Python, Node2Vec, FAISS, MF, Airflow): Graph ETL → Node2Vec embeddings + matrix factorization; FAISS ANN for sub-ms top-k retrieval; offline metrics (AUC, NDCG) and online CTR lift (double-digit). Deployed as FastAPI service with Redis cache; Airflow DAGs for retraining/backfills.
• **Algorithm Visualization Tool** (JavaFX, k-NN, Telemetry): Interactive 2D collision/physics visualizer with toggleable k-NN "ML mode" vs. analytic solver; perf counters, frame timing, exportable traces — live demo.

Technical Skills

Core Skills: Kubernetes, Docker, Terraform, AWS, Azure, GCP, Prometheus, Grafana
Additional Skills: Selenium, Appium, Selenium, Appium

Resume Customization Summary

Job Match Score: 133.3%
Requirements Matched: 16/20