## Michael Lubich

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## PROFESSIONAL SUMMARY

Results-oriented Software Engineer with extensive experience in test automation, backend development, and CI/CD pipeline optimization at industry leaders like Apple and Walmart. Demonstrated expertise in designing scalable data ingestion pipelines, streamlining deployment workflows, and building resilient infrastructure-as-code (IaC) environments. Proven track record of achieving measurable improvements, including a 50% reduction in deployment times and

backend performance enhancements by 300%. Collaborative team leader skilled at guiding cross-functional teams across QA, DevOps, and software engineering, fostering an environment of growth, inclusivity, and shared success. Committed to building reliable software solutions that not only meet technical excellence standards but also drive positive impacts for end-users and communities. Passionate about mentorship, knowledge sharing, and contributing to open-source projects that advance industry best practices. Seeking an opportunity to combine technical expertise and leadership capabilities in a role focused on innovation,

Skills		
Languages	Python, Java, C, C++, Go, JavaScript, TypeScript, SQL, HTML, CSS, Bash, Shell Scripting	
Frameworks	Spring Boot, Express.js, FastAPI, Django, Flask, React, Angular, PyTest, JUnit, GraphQL, PyTorch, Apache Spark, Hadoop, .NET, Microservices Architecture, API Gateway	
Libraries Tools	Pandas, NumPy, Scikit-learn, Selenium, BeautifulSoup, Bootstrap, Tailwind CSS, TensorFlow, Matplotlib, OpenCV, Lodash Docker, Kubernetes, Git, Jenkins, Ansible, GitHub Actions, Terraform, Helm, MySQL, MongoDB, SQLite, Jupyter, AWS SageMaker, Figma, Xcode, Maven, Protobuf, Postman, Datadog, Appiun Grafana, ELK Stack	n, VSCode, Prometheus, S
oud Platforms	AWS (EC2, S3, Lambda, IAM, RDS, DynamoDB, CloudFormation), GCP (Cloud Functions, BigQuery, Kubernetes Engine, Pub/Sub), Firebase, Kafka, Azure (App Services, Blob Storage)	
ating Systems	Red Hat Linux, Debian, Ubuntu, Windows, macOS	
<b>Aethodologies</b>	REST, gRPC, DevOps, CJ/CD (Continuous Integration/Continuous Deployment), Agile (Scrum, Kanban), TDD (Test-Driven Development), DDD (Domain-Driven Design), Infrastructure as Coc Continuous Deployment, Observability, Cost Optimization, Site Reliability Engineering (SRE), Cloud-Native Architecture, High Availability, Operational Excellence, Backend Development, Full-stack QA Automation	
Soft Skills	Leadership, Team Collaboration, Strategic Planning, Conflict Resolution, Problem Solving, Public Speaking, Stakeholder Communication, Technical Documentation, Mentorship, Adaptability Leadership, Cross-Functional Coordination	η, Time Management, Tecl
Educatio	N	
	of California, Berkeley f Arts in Computer Science	August 2019 – August 2 Berkeley,
<ul> <li>Relevant</li> </ul>	t Coursework Algorithms, Data Structures, Computer Security, Computer Architecture, Database Systems, Artificial Intelligence, Operating Systems, Discrete Mathematics, Probability Theory, A	
EXPERIEN Polaris Wi		September 2024 – Pre
<ul> <li>Software D</li> <li>CI/CD I</li> </ul>	revess evelopment Engineer in Test & Developer Pipeline Automation Engineered and maintained robust CI/CD pipelines using Jenkins, reducing deployment time by 50% and automating build, test, and deployment workflows across mult s, MacOS).	San Francisco,
	unctional Team Leadership Led and mentored a cross-functional team of 4 engineers, fostering collaboration across QA, DevOps, and backend engineering teams to deliver high-impact pro rocess Modernization Migrated Ant-based build systems to Maven, optimizing dependency management and improving build efficiency by 25%.	ojects.
	Data Ingestion Pipelines Designed and deployed scalable data ingestion pipelines with Apache Spark and Hadoop, processing over 10 million records daily and reducing latency by 40%.	
• Multi-Pl	ted Testing Frameworks Developed comprehensive regression and integration testing frameworks using PyTest and JUnit, increasing test coverage by 35% and reducing bugs by 30%. latform Compatibility Implemented deployment strategies ensuring cross-platform compatibility across Red Hat Linux, Windows, and MacOS, reducing integration issues by 20%. Collaboration Collaborated with QA, development, and operations teams, streamlining deployment workflows and enhancing team productivity by 20%.	
Apple		January 2023 – July 2
<ul> <li>Software D</li> </ul>	evelopment Engineer in Test, CoreOS - File Systems	Cupertino
<ul> <li>High-Pri</li> <li>Ansible</li> <li>Modular</li> </ul>	Automation Development Migrated and optimized over 20 legacy test scripts in Python, achieving a 300% improvement in automation efficiency and reducing manual QA overhead. iority Issue Resolution Managed and resolved over 1,100 high-priority tickets, ensuring stable deployment of APFS updates impacting over 100 million macOS users. Process Automation Implemented streamlined workflows using Ansible, reducing manual intervention by 30% and improving deployment efficiency by 200%. r Test Suite Design Designed modular Python test suites, enhancing code reusability and reducing redundancy by 40%.	
	epartment Collaboration Facilitated cross-departmental communication with product, engineering, and QA teams, improving workflow efficiency by 20%. al Documentation Authored detailed technical documentation and troubleshooting guides, reducing onboarding time for new hires by 50%.	
Walmart	·	May 2022 – August 2
	ngineer Intern	Sunnyvale
	rformance REST APIs Built and optimized REST APIs for large-scale data retrieval, managing over 50,000 data items daily and reducing latency by 60%. I Performance Optimization Enhanced backend performance by 300% using optimization techniques in Java and Spring Boot.	
	kflow Design Designed user flows using Figma and implemented them in Angular, achieving a 25% increase in user satisfaction.	
	Revenue Growth Developed scalable advertisement delivery systems, improving efficiency by 45% and increasing revenue by \$2 million annually.	
	itomation Automated recurring tasks, saving over 1,400 work hours annually and reducing costs by \$4 million. Berkeley National Laboratory	May 2021 – August 2
	General National Laboratory ngineer Intern, Machine Learning	Berkeley
	e Learning Model Optimization Enhanced model clustering accuracy from 82% to 87% using K-Means and hierarchical clustering. nalysis and Insights Performed extensive data correlation analysis, identifying trends and improving hypothesis testing outcomes.	
	naryss and magins i reinfinite exclusive data contraction analysis, identifying terms and injudicist testing ductomes. w Automation Streamlined data processing workflows, saving over 200 hours annually in repetitive tasks.	
• Visualiza	ation Tools Development Built reusable data visualization libraries, improving reporting efficiency across multiple projects.	
Honda Inn	iovations ngineer Intern	January 2021 – May 2 <i>Mountain View</i> ,
	ngmeer mem primization Engineered software solutions to optimize medical supply delivery logistics, achieving a remarkable 500% improvement in delivery rates across multiple operational zones.	wountain view,
• Workflor	ethodologies Implemented Agile methodologies and facilitated daily stand-ups, resulting in a 30% increase in team productivity and a 25% reduction in project delivery timelines. w Automation Automated continuous integration and deployment workflows using GitHub Actions, improving code integration efficiency by 35% and ensuring seamless build processes. We Project Leadership Led a high-impact Capstone Project focused on integrating innovative strategies for operational efficiency, delivering a \$1 million cost-saving outcome through data-drive	en decision-making.
	unctional Collaboration Collaborated with cross-functional teams, including engineers, project managers, and stakeholders, ensuring alignment on strategic goals and improving project visibility.	-
Projects		
	ml Developed an Al-driven platform to improve educational equity, enhancing resource accessibility for over 5,000 underrepresented students through scalable, data-driven solutions.	
-	I Co-founded a startup specializing in AI/ML-driven solutions; led a team of 8 interns, successfully launching an MVP with over 1,500 active users.	
	Unbiased Designed technology solutions to reduce hiring discrimination by 25%, improving diversity and fairness in recruitment pipelines.	
<ul> <li>Open Sour</li> </ul>	rce Contributions Contributed to the Django project by identifying and resolving critical bugs and enhancing documentation for improved usability. erating System Refactored and expanded core OS functionality, achieving a 40% performance improvement through optimized code architecture.	
	File Sharing System bills a secure file-sharing system with end-to-end encryption and ender sufficience in data transfer speeds.	
<ul> <li>Pintos Op</li> </ul>	sion Control System Implemented a lightweight, efficient Git version control system, reducing commit times by 66% and enhancing performance.	
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<ul> <li>Pintos Op</li> <li>Encrypted</li> <li>Gitlet Vers</li> <li>JOURNAL</li> </ul>	Publications	
<ul> <li>Pintos Ope</li> <li>Encrypted</li> <li>Gitlet Vers</li> <li>JOURNAL</li> <li>1. Stream</li> </ul>	n temperature predictions for river basin management in the Pacific Northwest and mid-Atlantic regions using machine learning. Michaelle Lubich.	
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- Diversity Advocacy Empowered women and underrepresented minorities by teaching core Computer Science concepts, contributing to a 15% increase in diversity within the tech education community.
- Technical Mentorship Mentored over 50 students in Data Structures, Algorithms, and Python Programming, enhancing problem-solving skills and career readiness.
   Outcome-Driven Training Delivered structured technical workshops, receiving consistent 4.9-star feedback ratings for clarity, effectiveness, and mentorship quality.
- Technical Communication Facilitated workshops on Agile Development, Version Control with Git, and Debugging Best Practices.
- Innovation in Curriculum Design Designed engaging, hands-on technical labs focusing on Software Development Lifecycle (SDLC), Backend Development, and Frontend Integration.