

**RANJAN R. LAMICHHANE**

US CITIZEN, 11 YEARS OF EXPERIENCE

+1.832.291.8804 | [ranjan.r.lamichhane@gmail.com](mailto:ranjan.r.lamichhane@gmail.com) | Seattle, WA<https://www.linkedin.com/in/rllamichhane><https://www.goodreads.com/rllamichhane> | <https://github.com/rllamichhane>**SOFTWARE ENGINEER | TECH LEAD | SOFTWARE ARCHITECT****BACKEND | DISTRIBUTED SYSTEMS | SYSTEM DESIGN | DEVOPS | AI INFRASTRUCTURE**

**Python | Linux/ Bash | SQL | Pandas | Protobuf | JSON | HTML**  
**AWS | GCP | Kubernetes | Terraform | Ansible | Docker | Nomad | SALT**  
**Grafana | OpenSearch | ELK Stack | BigQuery | Excel | JMP**  
**CI/ CD | Jenkins | CircleCI | TeamCity | Git/ Github | Bazel | Argo**

**Principal SE/ Tech-Lead (ML-Ops/ Dev-Ops)****SAMBA NOVA SYSTEMS | PALO ALTO, CA | 2022 - 2024**

- Led a team of 8 devs to improve developer velocity for ML workflows, increasing contribution rate by 2X
- Architected and Implemented a pervasive telemetry system to generate, collect, and display valuable metrics using Logstash, Opensearch, and Grafana
- Implemented JIRA ticket filing automation reducing the product release effort by more than 50%
- Architected test-infra for gate-runs to cull flaky, obsolete, and resource-heavy tests; reducing gate times by about 33% (1.5 hours)
- DRI for transforming legacy CI/CD Pipeline to modern hybrid architecture using CircleCI, terraform, Ansible
- Implemented AWS-EKS from scratch using Ansible and Terraform to run multiple infrastructure services
- Spearheaded comprehensive test-coverage reporting using Pytest and Codecov

**Senior Software Engineer (ML-Ops)****MYTHIC AI | REDWOOD CITY, CA | 2021 - 2022**

- Designed and implemented model training, inference, and deployment architecture improvements
- Implemented ML-model regression pipeline build, integration, testing, versioning, and deployment
- Took initiative to introduce software development best practices, Python template blueprints, & modern CI
- Introduced comprehensive plan to version, test, analyze, package, and release Python software components

**Software Engineer in Test for Machine Learning****OSARO INC. | SAN FRANCISCO, CA | 2020 - 2021**

- Implemented automated test infrastructure and CI/CD pipelines for ML microservices
- Improved existing CI pipeline to reduce CI time by ~85% (45 minutes to 7 minutes)
- Implemented CI policies for validation, testing, and tracking performance of ML models
- Developed a customer-facing configuration UI for our product using Python, proto-buf, and JSON-schema
- Played critical role in shipping an MVP product (in one Quarter) that worked flawlessly upon deployment

**Design Automation Engineer****INTEL CORPORATION | HILLSBORO, OR | 2013-2020**

- Implemented QA flow automation using Python; the automation reduced the QA time by ~60% (7 days to 3 days)
- Developed an automated flow to generate configuration-files for process-node specific environments; this reduced the human error from omission, typo, downstream effects, etc. by more than 90%
- Contributed to the existing test-suite by writing additional automated-tests
- Implemented automated batch-testing of microprocessors using robotic arms

- Wrote automated tests to debug, test, and characterize custom microprocessor IP's
- Wrote a mathematical model to calculate ideality-factor that increased the thermal sensor accuracy by ~3%

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## Research Assistant

UNIVERSITY OF ARKANSAS | FAYETTEVILLE, AR | 2011-2013

- Implemented an out-of-the box circuit topology for SiC gate-buffer that outperformed legacy design by ~75%
- Designed a high-efficiency silicon-carbide integrated gate buffer for extreme temperature applications
  - 2014 R&D 100 Award for one of the 100 most significant high-technology products introduced that year

## More About Me

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*As a seasoned software engineering leader with extensive experience in backend development, distributed systems, AI infrastructure, and DevOps, I specialize in driving innovation through pragmatic, out-of-the-box solutions. I have a strong track record of transforming CI/CD pipelines, architecting scalable infrastructures, and boosting developer velocity by leveraging modern tools and processes.*

*An avid reader and a lifelong learner, I believe that insights from diverse fields enhance problem-solving and innovation in general. I actively apply interdisciplinary perspectives to drive excellence in competitive high-tech environments. My holistic approach enables me to identify and resolve critical technical debts, maximizing ROI and streamlining workflows. I excel at analyzing constraints, devising effective solutions, and implementing them with rapid feedback mechanisms. My leadership is grounded in collaboration and emotional intelligence, facilitating successful outcomes in complex, cross-disciplinary projects.*

*I am eager to bring my extensive experience and leadership skills to a tech-lead, managerial, or system architect role, where I can drive innovation, lead dynamic teams, and design cutting-edge AI solutions. I'm passionate about AI, software architecture, and cryptocurrencies.*

## EDUCATION

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**Masters of Science (MSEE): GPA 3.85/4.00**

UNIVERSITY OF ARKANSAS | FAYETTEVILLE, AR

## CERTIFICATES\*

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- Machine Learning (Stanford Online) by Coursera
- Python Data Science Professional Certificate (IBM) by edX
- Data Engineering Foundations by LinkedIn
- AWS Fundamentals: Going Cloud-Native by Coursera
- Getting Started with Google Kubernetes Engine by Coursera

[\\*Please Refer to my LinkedIn Page for More Certificates & Training](#)

## PUBLICATIONS

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- "A wide bandgap silicon carbide (SiC) gate driver for high-temperature and high-voltage applications", 2014 IEEE 26th International Symposium on Power Semiconductor Devices & IC's (ISPSD)
- "A 4H Silicon Carbide Gate Buffer for Integrated Power Systems", IEEE Transactions on Power Electronics, Feb. 2014
- "High-temperature SiC power module with integrated SiC gate drivers for future high-density power electronics applications", 2014 IEEE Workshop on Wide Bandgap Power Devices and Applications

[Please Refer to my Google Scholar Page for More Publications](#)

## HOBBIES

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I try to keep my mind & body engaged, active, and challenged with a variety of explorations.

READING - TRAVELING - INVESTING - WORKING OUT - RUNNING - SNOWBOARDING - CLIMBING - SURFING -  
MEDITATION - SWIMMING - SOCCER - TENNIS - GOLF - HIKING

## LANGUAGES

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I love exploring new places, cultures, and learning their way of life and their language.

ENGLISH (FLUENT) - NEPALI (NATIVE) - SPANISH (BASIC) - HINDI (BASIC)

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DETAILED REFERENCES AVAILABLE ON REQUEST