Jin Liu — Machine Learning Engineer

Years of Experience: 12
Master of Science in Electrical Engineering

JIN LIU
Machine Learning Engineer
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SUMMARY

Highly skilled Machine Learning Engineer with 12 years of progressive experience in embedded systems, data engineering, and AI solutions across leading Asia■Pacific technology firms. Proven expertise in developing end■to■end ML pipelines, deploying scalable models in cloud environments, and integrating sensor data for intelligent products. Strong background in firmware development, data lake architecture, and production■ready model serving with DevOps best practices.

- Embedded Systems
- Firmware Development (C/C++)
- Python, SQL
- TensorFlow, PyTorch, OpenCV
- Data Engineering (Apache Spark, Hive, ETL)
- Cloud Services (AWS, Azure, GCP)
- Machine Learning & Model Deployment
- DevOps (CI/CD, Automation)

EXPERIENCE

- Designed and evaluated PCB layouts for consumer electronics, ensuring manufacturability and reliability.
- Developed embedded firmware in C for low■power sensor modules, reducing power consumption by 8%.
- Coordinated with cross■functional teams to ensure seamless hardware/software integration.

- Implemented firmware for 5G IoT gateways, improving data throughput by 20%.
- Optimized driver code to reduce power consumption by 15% per device.
- Collaborated with QA to automate unit and integration testing, cutting release cycle time.

- Led a team of 5 engineers in developing next■generation wearable firmware.
- Introduced modular architecture that cut release cycle from 12 to 6 weeks.
- Mentored juniors on best practices in code reviews and CI/CD pipelines.

- Designed and maintained real■time data pipelines ingesting 1M+ sensor streams daily.
- Built ETL workflows using Spark and Hive, reducing processing time by 30%.
- Integrated data lake with machine■learning services for downstream analytics.

- Designed and deployed computer■vision models for real■time object detection across mobile devices.
- Implemented natural■language■processing pipelines for user■interaction features, increasing engagement by 25%.
- Lead A/B testing and model monitoring, reducing prediction drift by 18%.

EDUCATION

Master of Science, Electrical Engineering - Nanyang Technological University - Singapore
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