

POTLURI KRISHNA PRIYATHAM

Software Engineer · AI/ML/Data Practitioner · Quantum Computing Enthusiast

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SUMMARY

Problem solver, software engineer and AI/ML/Data practitioner with ~2 years of industry experience across defence systems (BEL), enterprise mobile (Jio Platforms), and cloud-deployed ML applications. Skilled across full-stack development, data science, and quantum computing. Known for breaking down ambiguous requirements, identifying root causes, and delivering reliable solutions with hands-on cloud deployment, system design/architecture, and autonomous AI agent experience.

SKILLS

Quantum: Qiskit, Cirq, QBraid, Azure Quantum

Mathematics: Linear Algebra, Probability, Numerical Methods, Advanced Calculus

Languages: Python, Java, C/C++, JavaScript, Swift, SQL, HTML/CSS

Frameworks & ML: Spring Boot, React, Flask, TensorFlow, PyTorch, Scikit-Learn, LangChain, OpenCV, Pandas, NumPy

Cloud & Other Tools: AWS, Azure, MySQL, MongoDB, PostgreSQL, Power BI, Git, Docker

WORK EXPERIENCE

Deputy Engineer | Bharat Electronics Limited (BEL)

Jun 2025 – Mar 2026

- Contributed to the AEW&C Maintenance Management System (Java Spring Boot, React, Python) by implementing key modules and proposing an OCR-based document ingestion flow to auto-fill forms and surface extracted fields — estimated to reduce manual data entry by ~68%.
- Engineered a high-reliability Ventilator System UI with Qt/QML meeting strict safety standards.
- Designed and engineered the VAAMS system architecture, defining key modules and integration points across software and hardware components.

Software Intern | Jio Platforms Limited

Aug 2022 – Jul 2023

- Engineered 5+ major features and resolved 20+ critical bugs for the JioMeet macOS client, driving a 35% increase in app performance and significantly enhancing the end-to-end user experience for millions of users.
- Ensured platform stability and data continuity by upgrading to GA4 tracking and maintaining high-quality Swift/Objective-C codebases, resulting in a 99.9% session success rate across the platform.

ML Intern | Indian Servers

Jun 2021 – Aug 2021

- Built and deployed IRIS flower classification ML model (Scikit-learn + Flask) on Azure App Service with 90% model accuracy.

PROJECTS

Own Agent — Personal AI Agent | LangChain, Gemini, Python github.com/kittupriyatham/OwnAgent

- Autonomous agent executing system tasks, file operations, and real-time web research through a custom toolset.

QiskitLearningJourney | Python, Qiskit, QBraid github.com/kittupriyatham/QiskitLearningJourney

- Implemented 9 quantum circuits from scratch using a Problem-Based Learning approach: Bell & GHZ states, Superdense Coding, Quantum Half-Adder etc — architected to run on local simulators (Qiskit Aer), QBraid cloud, and future Azure Quantum / AWS Braket targets.

BookCollectionManager | Spring Boot, PostgreSQL, React github.com/kittupriyatham/BookCollectionManager

- Full-stack CRUD app with RESTful API backend and responsive React frontend for personal library management.

ML-Model-Deployment | Scikit-learn, Flask, Azure App Service github.com/kittupriyatham/Machine-Learning-Model-Deployment

- Deployed an Iris classification model as a Flask web app on Azure App Service — model achieved 90% accuracy on test data, packaged for production-style serving.

EDUCATION

B.Tech Computer Science & Engineering | KL Deemed to be University

Aug 2019 – Apr 2023

CERTIFICATIONS

- WISER x AQV x Qubitech: Quantum Algorithms: Fundamentals & Hands-on Training — Phase 2 [In Progress]
- WISER x AQV x Qubitech: Quantum Fundamentals — Phase 1 [Completed] (top ~4.6% of 65,000+ candidates)
- Microsoft Certified: Azure Developer Associate (2022)
- Certified Entry-Level Python Programmer — OpenEDG (2022)

More at: credly.com/users/potluri-krishna-priyatham