

Rajesh Kodaganti

AI Software Engineer

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SUMMARY

AI Software Engineer specializing in applied AI, data engineering, and cloud-native solutions on Microsoft Azure. Experienced in building LLM-powered automation, document intelligence pipelines, and secure DevOps workflows. Microsoft-certified across Azure AI, Data, and DevOps, with a track record of turning complex systems into reliable, production-ready products.

TECHNICAL SKILLS

Cloud & DevOps: Microsoft Azure, Microsoft DevOps, Docker, Apache Airflow, IT Service Management (ITSM)

AI & Data Engineering: Azure AI, Microsoft Fabric, Generative AI, OpenAI API, Python, SQL

Tools: GitHub Copilot, Microsoft 365, Atlassian Suite

EXPERIENCE

Microsoft

Mar 2026 – Present

AI Software Engineer (Contract) | Redmond, WA

- Architecting and developing AI software solutions across Microsoft engineering workflows.
- Building and integrating LLM-powered features and automation into production systems.

Quadrant Technologies

Aug 2025 – Present

AI Software Engineer (Full-time) | Redmond, WA

- Designed and implemented ETL processes for security logs and vulnerability reports.
- Leveraged machine learning to analyze threat intelligence data and inform mitigation strategies.
- Developed data ingestion systems for endpoint and network security telemetry.
- Created monitoring dashboards for cloud security and compliance posture.
- Promoted from Software Intern (Jul 2025 – Aug 2025) after a successful internship.

QikCell by tickioT

Jan 2025 – May 2025

Solutions Engineer Intern | Los Angeles, CA

- Collaborated with sales and technical teams to align customer needs with product capabilities.
- Developed and customized technical demonstrations to showcase product features.
- Assisted in troubleshooting and documenting solutions, reducing response times by 20%.

ColorOS (OPPO)

Jun 2018 – Jul 2022

User Test Specialist (Freelance) | Remote

- Conducted user testing for ColorOS Beta and Alpha versions (5.0 to 12.1).
- Identified bugs and suggested new features based on user feedback.
- Collaborated with cross-functional teams to improve software performance.

Pantech ProEd Pvt Ltd

Jun 2020 – Jul 2020

Student Intern | Hyderabad, India

- Contributed to the development of a high-speed 64-bit binary comparator.
- Optimized design parameters in collaboration with the engineering team.

PeopleLink Unified Communications

Jun 2018 – May 2019

Product Tester, R&D; | Hyderabad, India

- Evaluated prototypes to ensure functionality and quality before release.
- Contributed to the market release of products, reducing post-launch defects by 20%.

EDUCATION

California State University, Northridge

2022/08 – 2025/05

Master of Science - MS, Computer Engineering

PROJECTS

JobPilot: AI-Powered Job Application Co-Pilot | [link](#)

JavaScript, Python, Cloudflare Workers, Anthropic API, AES-GCM

A lightweight, browser-only application that streamlines the job search through AI automation. JobPilot aggregates listings from Adzuna, JSearch, and USAJobs so users can find roles and optimize their application materials in one place.

- Aggregates job listings from Adzuna, JSearch, and USAJobs into a single search experience.
- Static site generated with Python and hosted on GitHub Pages, paired with a thin Cloudflare Worker proxy to eliminate a traditional backend database.
- Zero-trust, client-side security model: Anthropic API keys and user resumes are encrypted with AES-GCM and stored via direct Google Drive integration for complete user privacy.

Sentinel: Autonomous DevOps Orchestrator | [link](#)

Azure OpenAI, GitHub Copilot, MCP, JavaScript, DevOps

An AI-driven bridge between Jira and GitHub designed to automate the manual overhead of the DevOps lifecycle, taking tickets from 'To Do' to 'Done' with minimal human intervention. Associated with Quadrant Technologies.

- Autonomous polling that scans Jira boards every 30 seconds for new tickets.
- AI-powered implementation using Azure OpenAI and GitHub Copilot to analyze repository structures and generate context-aware code fixes.
- Automated PR management: creates feature branches, triggers Copilot, and manages the approval/merge flow once CI/CD checks pass.

GasOps MTR extraction | [link](#)

Azure Document Intelligence, OpenAI API, Python, FastAPI, API Testing

Designed a robust system for JSON extraction and document intelligence using Azure OCR and OpenAI.

- Implemented Azure Document Intelligence OCR and AI mapping supporting Azure OpenAI
- Built certificate and token-based API fetch by HeatNumber
- Created robust JSON extraction from model responses and a backwards-compatible CLI shim

Image Denoising using Deep Learning | [link](#)

Python, TensorFlow, PyTorch

Developed ConvIR, a deep learning framework for image denoising targeting additive white Gaussian noise (AWGN) using a dual-domain learning approach. Associated with California State University, Northridge.

- Implemented a composite loss function incorporating pixel-wise MSE, FFT-based spectral loss, and noise estimation regularization for spatial and frequency fidelity.
- Designed a UNet-inspired convolutional network with skip connections, multi-scale attention, and frequency-aware branches, trained across noise intensities ($\sigma=1.5$ to $\sigma=25$).
- Achieved PSNR gains exceeding 12 dB at high noise levels and a 95% reduction in residual noise under low-noise conditions.

Pre-owned Cars pricing forecast using R language

R, Data Preparation

Developed a Random Forest Regression model in R for pre-owned car price forecasting.

- Achieved 85.67% accuracy on a dataset of 48,904 rows
- Conducted extensive data preprocessing including handling missing values and categorical features

1X3 Router Design and Verification

Verilog, RTL Design

Designed and verified a 1x3 router using Verilog HDL.

- Implemented synthesis constraints in Verilog
- Performed verification using testbenches in Modelsim and synthesis in Quartus Prime

Raspberry Pi Applications for Assistive Technologies | [link](#)

Raspberry Pi, Python, Tesseract OCR

Created reading aids for visually impaired individuals using Raspberry Pi and OCR technology.

- Utilized Tesseract library and Python to convert document images into audio format using both online and offline OCR methods

- Integrated camera modules for real-time text capture in educational settings

PeopleLink "Look At Me" Controller

PCB Design, Embedded C

Spearheaded circuit design for a smart camera controller for conference rooms.

- Developed wired and wireless models with auto-focus capabilities on active speakers
- Simplified installation and operation for collaborative environments

CERTIFICATIONS

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|---|---|
| • Career Essentials in Sustainable Tech — Microsoft, Sep 2024 | • Azure Data Scientist Associate — Microsoft, Feb 2026 |
| • Microsoft Azure AI Essentials Professional Certificate — Microsoft, Jul 2025 | • Claude Code in Action — Anthropic, Feb 2026 |
| • Career Essentials in GitHub Copilot Professional Certificate — GitHub, Jul 2025 | • Introduction to Model Context Protocol — Anthropic, Feb 2026 |
| • Docker Foundations Professional Certificate — Docker, Jul 2025 | • Model Context Protocol: Advanced Topics — Anthropic, Feb 2026 |
| • Apache Airflow 3 Fundamentals — Astronomer, Oct 2025 | • Claude in Amazon Bedrock — Anthropic, Feb 2026 |
| • DAG Authoring for Apache Airflow 3 — Astronomer, Oct 2025 | • Building with the Claude API — Anthropic, Feb 2026 |
| • Fabric Data Engineer Associate — Microsoft, Nov 2025 | • Claude with Google Cloud's Vertex AI — Anthropic, Feb 2026 |
| • Azure AI Engineer Associate — Microsoft, Dec 2025 | • Career Essentials in Generative AI — Microsoft, Mar 2026 |
| • Microsoft Copilot for Productivity — Microsoft, Dec 2025 | • SQL AI Developer Associate — Microsoft, May 2026 |
| • Atlassian IT Service Management (ITSM) Professional Certificate — Atlassian, Dec 2025 | • AI Fluency: Framework & Foundations — Anthropic, Jun 2026 |
| • DevOps Engineer Expert — Microsoft, Jan 2026 | • Introduction to Claude Cowork — Anthropic, Jun 2026 |
| • Azure Administrator Associate — Microsoft, Jan 2026 | • AI Capabilities and Limitations — Anthropic, Jun 2026 |