

# Robert Johnson

## AI Engineer | LLM Applications Specialist

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## Professional Summary

Practical AI Engineer with 4+ years of experience implementing LLM-powered applications for enterprise use cases. Specialized in fine-tuning strategies, retrieval-augmented generation, and prompt engineering techniques. Strong focus on bridging research advances with business applications to deliver measurable outcomes.

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## Professional Experience

### AI Applications Engineer

#### Enterprise AI Solutions, Chicago, IL (May 2022 - Present)

- Implemented RAG systems for enterprise knowledge bases, improving answer accuracy by 45% over baseline LLMs.
- Developed specialized fine-tuning methodology for domain adaptation, reducing hallucinations by 60%.
- Created evaluation frameworks aligned with business metrics to measure ROI of LLM implementations.
- Designed hybrid architectures combining rule-based systems with LLMs for critical applications.

### Machine Learning Engineer

#### DataDrive Technologies, Detroit, MI (Jan 2020 - Apr 2022)

- Built NLP systems for document processing, extraction, and classification.
- Implemented transformer-based models for sentiment analysis and entity recognition.
- Developed APIs and integration layers for connecting ML systems with business applications.
- Created monitoring dashboards for tracking model performance in production.

### Software Engineer

#### TechSolutions Inc., Cleveland, OH (Aug 2018 - Dec 2019)

- Developed backend services for data processing and analytics applications.
- Created RESTful APIs for machine learning model integration.
- Implemented data pipelines for training and evaluation datasets.

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## Technical Skills

- **Programming Languages:** Python, JavaScript, TypeScript
  - **ML Frameworks:** PyTorch, HuggingFace Transformers, LangChain, LlamaIndex
  - **Model Types:** GPT-3.5, GPT-4, LLaMA, Mistral, BERT, RoBERTa
  - **Vector Databases:** Pinecone, Weaviate, Chroma, FAISS
  - **Backend & APIs:** FastAPI, Flask, Node.js, GraphQL
  - **Cloud Services:** AWS (Lambda, ECS, S3), Azure (Functions, AKS)
  - **DevOps:** Docker, GitHub Actions, Jenkins
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## Education

### Master of Science, Computer Science

University of Illinois Urbana-Champaign, IL (Graduated: May 2018)

- Specialization in Machine Learning and Data Mining - Capstone project: Building NLP applications for business analytics

## **Bachelor of Science, Software Engineering**

Purdue University, West Lafayette, IN (Graduated: Jun 2016)

- Minor in Business Administration - Dean's List for 6 consecutive semesters

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## **Certifications**

- AWS Certified Machine Learning Specialist (2023)
  - Microsoft Certified: Azure AI Engineer Associate (2022)
  - Deeplearning.ai Natural Language Processing Specialization (2021)
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## **Project Portfolio**

- **Enterprise Knowledge Assistant:** Built RAG-based system for internal knowledge retrieval
  - **Document Processing Pipeline:** Created end-to-end system for processing, analyzing, and extracting information from business documents
  - **Customer Support Automation:** Developed hybrid rule-based/LLM system for addressing customer inquiries
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## **Professional Presentations**

- Speaker at Enterprise AI Summit 2023: "Practical Applications of LLMs in Business Contexts"
  - Workshop leader at Chicago AI Meetup: "Building RAG Systems for Enterprise Knowledge Bases"
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**Languages:** English (native), Spanish (conversational)