TYLER BROOKS

AI Engineer

CONTACT

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Orlando, FL
LinkedIn

EDUCATION

B.S.

Computer Science

University of Central Florida

September 2016 - April 2020

Orlando, FL

SKILLS

- Python
- C++
- Java
- Algorithm Design
- Statistical Modeling
- Apache Spark
- Apache Kafka
- LangChain
- LlamaIndex

WORK EXPERIENCE

AI Engineer

Signature Aviation

October 2024 - current Orlando, FL

- Integrated LangChain-powered AI workflows to automate internal operational queries, shortening the average employee information retrieval time by 4 minutes.
- Developed a LlamaIndex-based retrieval-augmented generation (RAG) system to search aviation procedures and technical documentation, improving information search accuracy by 21%.
- Optimized ML algorithms for aircraft turnaround time prediction, **reducing mean absolute prediction error by 8%**.
- Designed distributed data processing architectures using Apache Spark and Kafka, growing operational data throughput by 53%.

AI Engineer

PricewaterhouseCoopers (PwC)

August 2021 - September 2024 Orlando, FL

- Developed Python-based machine learning models to automate financial risk assessments, reducing manual analysis time by 38% across 12 client engagements.
- Designed and implemented NLP algorithms using Python and statistical modeling techniques, raising document classification accuracy from 84% to 94%.
- Built scalable data processing pipelines with Apache Spark, processing over 8 million financial records daily while **mitigating processing time by 11 minutes**.
- Built real-time data streaming solutions using Apache Kafka, decreasing financial transaction monitoring latency by 45%.

AI Engineer Intern

Metova Federal

May 2020 - July 2021 Orlando, FL

- Engineered real-time data ingestion workflows with Apache Kafka, processing 400K+ messages every day with an average delivery reliability rate of 98.3%.
- Developed LLM-powered applications using LangChain, **automating 3 repetitive information retrieval and analysis tasks**.
- Integrated LlamaIndex with enterprise knowledge repositories, improving document retrieval accuracy by 28% across internal AI applications.
- Designed statistical models in Python to identify patterns across datasets, increasing forecasting accuracy by 21%.