

Preston Jones

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EDUCATION

BACHELOR OF SCIENCE, COMPUTER SCIENCE

University of Oklahoma

GPA: 3.70/4.00

Relevant Coursework: Artificial Intelligence, Data Structures, Operating Systems, Software Engineering, Linear Algebra, Calculus I-IV, Discrete Mathematics, Differential & Integral Calculus

Honors: President's Honor Roll, Dean's Honor Roll, Alpha Lambda Delta Honors Society

PROFESSIONAL EXPERIENCE

PCI ENERGY SOLUTIONS

Norman, OK

Software Analyst

Aug 2024 - Present

- Developed microservices using Java Spring Boot to process real-time energy data utilized by 70% of Fortune 500 Energy companies.
- Implemented Kubernetes for containerization and orchestration of data pipeline services.
- Engineered data workflows using AWS Lakehouse, Trino, and PostgreSQL to optimize energy trading models.
- Built and maintained RESTful APIs for data integration between trading platforms and analytics systems.
- Developed AI-powered analytics tools that saved major energy companies up to 1% of production costs.
- Collaborated directly with leadership to design scalable data architectures supporting critical operations.

VAST VERTEX

New York City, NY

Founding Prompt Engineer

APR 2024 - Dec 2024

- Developed and implemented advanced NLP models using FastAPI, transforming complex research papers into accessible and engaging podcast content, significantly enhancing data-driven decision-making.
- Pioneered prompt engineering techniques to optimize natural language processing, improving the accuracy and efficiency of AI-generated outputs to meet high industry standards.
- Collaborated closely with C-Level Executives from major publishing firms, including Wiley and Springer Nature, securing strategic insights that guided successful product development and market entry.

DAVAI – DRUG ANALYSIS AND VALIDATION USING AI

Norman, OK

Principal Data Engineer

MAY 2023 - May 2024

- Transformed hundreds of thousands of research papers into vectors using Weaviate, and managed over a terabyte of biomedical data with MySQL, Python, and Neo4j, fueling AI-driven drug repurposing insights.
- Engineered robust data management systems, building infrastructure to efficiently store and process large-scale complex data, enabling advanced AI-driven drug discovery.
- Presented software to executives at Johnson & Johnson and the NIH, securing critical feedback and validation for further development.

UNIVERSITY OF OKLAHOMA – GALLOGLY COLLEGE OF ENGINEERING

Norman, OK

Undergraduate AI Researcher

MAY 2023 - May 2024

- *Worked with the Gallogly College of Engineering's Dean of Partnerships, Sridhar Radhakrishnan, to design and implement a cohesive and extremely detailed self sorting data lake.*
- Automated the extraction of over 1 million biomedical documents, optimizing research capabilities using open-source data from FDA, PubMed Central, Nature, arXiv, and DrugBank.
- Developed and managed robust database infrastructure, ensuring access to critical scientific data.

TECHNICAL SKILLS

- **Languages:** Java, Python
- **Frameworks:** Spring Boot
- **Infrastructure:** Kubernetes, AWS Lakehouse
- **Databases:** PostgreSQL, Trino
- **Tools:** DBeaver, API integration
- **Specialties:** Big Data, AI/ML, Data Analytics