Jonathan Ryan Williams

AI/ML Engineer | Gen AI | NLP | Python Developer

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PROFILE SUMMARY

Innovative AI Engineer and Backend Developer with a proven track record in designing, building, and optimizing large-scale architectures. Adept at leveraging AI-driven solutions to solve complex problems while ensuring high-performance and scalable systems. Expert in DevOps and cloud platforms (AWS, GCP, Azure) for seamless deployment, monitoring, and automation. Skilled in collaborating with cross-functional teams to deliver reliable, innovative, and scalable data solutions that meet business needs.

SKILLS

Core AI & Machine Learning Skills:

Model development, NLP, deep learning, Big Data Processing

Backend Engineering:

Scalable API design, microservices, event-driven architecture, Amazon S3, Google Cloud Storage, Azure Data Lake Storage

Databases and Storage:

Relational Databases: MySQL, PostgreSQL, Oracle, SQL Server, Amazon RDS, Google Cloud SQL, Azure SQL Database

NoSQL Databases: MongoDB, DynamoDB, CouchDB, Redis, Firebase, Google Firestore, Amazon DocumentDB. Azure Cosmos DB

Data Lakes: Amazon S3, Google Cloud Storage, Azure Data Lake Storage

• Cloud Platforms and Services:

Amazon Web Services (AWS), Google Cloud Platform (GCP), Microsoft Azure

• Programming and Scripting Languages:

Python, C#, Node.js, Php, Java, Bash, Shell Scripting, JavaScript, JSON

DevOps and CI/CD for Backend Engineering:

GitHub Actions, Bitbucket Pipelines, GitLab CI/CD, Docker, Kubernetes , Jenkins,

Data Security and Compliance:

Data Encryption, SSL/TLS, IAM (Identity and Access Management), Secure Data Pipelines, Role-Based Access Control (RBAC), Attribute-Based Access Control (ABAC), PKI (Public Key Infrastructure)

APIs and Integration:

RESTful APIs, GraphQL, gRPC, JSON-RPC, API Gateway, API Management, SDK Development, Webhooks, Event-Driven Architecture, Microservices, Service Mesh, API Security, API Versioning, OAuth2, JWT, CORS

Version Control and Collaboration:

Git, GitHub, GitLab, Bitbucket, Jira, Trello, Slack, Microsoft Teams, Zoom, Google Meet, Miro, Code Reviews, Pull Requests, Technical Documentation, Agile Methodologies

PROFESSIONAL EXPERIENCE

Al Engineer & Backend Developer | Global Precisional Services LLC Nov 2024 – April 2025 | Wilmington, DE

- Lead development and optimization of Al-powered backend systems for quantity takeoff and cost estimation processes by analyzing PDF CAD drawings using Python, NLP, OCR, Generative Al, and GCP
- Designed and implemented an automated workflow and payment integration using Python,
 Wix, Webhooks, and Stripe.

Al Engineer & Backend Developer | Elastic July 2022 - Aug 2024 | Mountain View, CA

- Lead development and optimization of Al-powered backend systems for large-scale applications in enterprise IT solutions and cloud computing.
- Designed and implemented scalable, microservices-based architectures to serve AI
 models in production environments using Python, Node.js, and AWS.
- Built and deployed machine learning models for predictive analytics and recommendation systems, improving product features and user engagement.
- Integrated real-time data processing and Al-driven APIs into backend services using Apache Kafka, Redis, and SQL/NoSQL databases.
- Collaborated with cross-functional teams on cloud platform migrations (AWS, Azure, GCP) and continuous deployment pipelines using Docker, Kubernetes, Terraform, Jenkins, and CI/CD tools.
- Ensured data security, compliance, and performance optimization, contributing to a 30% increase in system efficiency.

Technologies/Tools: Python, Node.js, AWS, AWS Glue, AI/ML Integration, Apache Kafka, Redis, NoSQL, TensorFlow, Scikit-learn, Docker, Kubernetes, QAuth2/JWT

Al Engineer & Cloud Backend Developer | Workday

Jan 2018 - Jan 2022 | Frisco, TX

- Developed and deployed Al-driven models for enterprise resource planning (ERP) and predictive analytics in production environments.
- Collaborated in the design of serverless architectures on AWS Lambda and Google
 Cloud Functions, reducing server costs by 25%.
- Created and maintained backend systems for AI projects, including model training,

- optimization, and integration into cloud databases. Key Accomplishments
- Implemented data ingestion pipelines using Apache Kafka, Airflow, and AWS S3, ensuring seamless data flow across various cloud environments.
- Worked with cross-disciplinary teams to improve AI model performance by analyzing system logs, tracking metrics, and addressing system bottlenecks.

Technologies/Tools: Python, PyTorch, Hugging Face, Node.js, AWS Lambda, Amazon S3, Google Cloud Storage, Google BigQuery, Google Al Platform. Apache Kafka, AWS Glue

Junior Backend Developer & Machine Learning Intern | Capital One June 2016 - May 2017 | McLean, VA / Remote

- Assisted in backend development for Al-driven applications and worked closely with the Al
 team to integrate machine learning models into financial applications.
- Developed automated scripts for data preprocessing, feature extraction, and model training pipelines using Python and Scikit-learn.
- Enhanced the performance of existing APIs by implementing caching mechanisms (Redis) and optimizing database queries (PostgreSQL).
- Contributed to optimizing backend services to ensure efficient model inference and deployment in real-time systems.
- Gained hands-on experience in cloud environments (AWS, GCP) and CI/CD pipelines using **GitHub Actions** and **Jenkins**.

Technologies/Tools: Python, Django, FastAPI, PyTorch, Node.js, Google Al Platform, Redis, MongoDB, Celery, SSL/TLS, OAuth2/JWT

EDUCATION

Bachelor of Science in Computer Science August 2011 - May 2015 | Texas, US

Texas A&M University

Master of Science in Artificial Intelligence August 2016 - May 2017 | CSCE 631-Intelligent Agents Course

LANGUAGES

English