

# James Bonant

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Currently seeking an engineering role in either Deep Learning / ML or MLOps. I enjoy both fields and am open to other similar positions in DevOps and Machine Learning.

## EDUCATION

Bachelor of Science in Computer Science

University of Pittsburgh, Pittsburgh, PA

Graduated: April 2009

## TECHNICAL SKILLS

Languages: Python, SQL, Ruby, Shell, GO

Keras, OpenCV, TensorFlow

Greenplum, Oracle, SQL Server

Hadoop, Hive, Impala, Spark, Slurm

AWS, Azure

Jenkins, GitLab

Unix, Linux

Chef, Puppet, Ansible

Docker, Kubernetes

Jira, Confluence

Artifactory, SonarQube, HL7 medical

documents, WXS installers, Android

## PROFESSIONAL EXPERIENCE

### **Full Stack Azure ML Engineer - Mars**

April 2024 – Present

- Developed and deployed Azure Data Factory Pipelines.
- Cleaned and explored data for feature engineering using Databricks.
- Deployed models to Azure ML and managed Azure Container web services.
- Modeled raw sales data into final semantic layers.
- Set up deployment pipelines in Azure DevOps for system components.
- Developed web services interfacing with data and model layers.

### **Senior Machine Learning Engineer - PNC Bank**

August 2022 – April 2024

- Principal ML engineer responsible for productionizing data scientists' proof of concepts into viable products.
- Managed Azure Data Factory Pipelines and Hadoop databases.

- Performed hyperparameter tuning for existing and new models using PySpark and R.
- Integrated various models using Slurm and Spark-submit.

### **VP - Production Releases - BNY Mellon**

February 2018 – 2022

- Created a framework for MI fraud detection model testing in internal cloud systems.
- Developed labeled datasets for system outage prediction and risk assessment.
- Implemented cleaner git-flow branching strategies and explored database deployment automation tools (e.g., Liquibase).
- Oversaw the deployment of multiple apps to a containerized internal cloud.
- Led extensive Jenkins cleanups and simplified release processes using GitLab pipelines.

### **DevOps Engineer - Broadridge**

May 2012 – 2018

- Automated continuous integration systems using Python, Shell scripts, Groovy, and Ruby.
- Principal build engineer for SalesVision Data reporting applications.
- Developed Python QA and production deployment scripts leveraging Web2py and Django.
- Managed Jenkins automation for builds and deployments, and led system provisioning with Chef and Ansible.
- Coordinated with shared services for scaling systems and added hardware as needed.
- Packaged build artifacts using Bamboo, Jenkins, Git, Maven, and Archiva.

### **Software Engineer - UPMC Cancer Centers**

May 2011 – May 2012

- Developed and maintained Java/Oracle-based Clinical Trials Management Application (CTMA).
- Deployed applications using shell and ant scripts in Tomcat/IIS environments.
- Assisted with SQL Server database changes to improve Cognos report performance.
- Integrated web services with CTMA and developed Android apps for data demonstration purposes.

### **Software Engineer - Multi Modal Technology**

June 2010 – May 2011

- Supported M\*Modal product integrations using Java, Python, and .NET.
- Developed flexible testing tools for speech recognition using Python and C#.
- Created and maintained ASP.NET applications and hosted them on IIS servers.
- Worked on the Medical Doctor Workstation application and developed installers using Wix and Hudson/Jenkins.