

Jacob Braswell

Senior AI Engineer

9611 Scotch Haven Dr
Vienna, VA 22181
(513) 722-5915
jacob.braswell00@gmail.com

SKILLS

- Python, R, JavaScript, Bash
- AWS, GCP, Azure
- OpenTelemetry, Prometheus, Grafana
- SQL, MySQL, MongoDB
- Terraform, Crossplane
- Helm, Kustomize
- Langchain, LLamaindex, Huggingface, Pytorch
- Docker, Kubernetes, containerd
- ArgoCD, FluxCD
- Kubeflow, Metaflow, Kserve, MLflow
- Github Actions, Jenkins

CERTIFICATIONS

- AWS ML Specialty
- GCP Associate Cloud Engineer
- Certified Kubernetes Administrator
- Azure 900

EXPERIENCE

Seekr, Vienna VA - Senior AI Solutions Engineer

Security Clearance: Secret (Active)

January 2026 - Present

- Lead AI/ML Platform Architect & Primary Engineer across federal defense and intelligence initiatives; owned end-to-end productionalization, deployment, and lifecycle management for sovereign, air-gapped, and FIPS-compliant Next.js, FastAPI, PyTorch, and OpenSearch platforms on Kubernetes.
- Engineered a Sovereign AI Redaction & FOIA Platform (SQLModel, pydantic-ai, K8s/Helm) for high-consequence government document workflows; designed an AI-driven PII pipeline uniting Named Entity Recognition (NER) and fine-tuned LLM extraction with an OpenSearch semantic consistency layer to guarantee zero-variance redaction across massive document sets.
- Architected a Mechanistic Interpretability & Fine-Tuning Platform in PyTorch/FastAPI for LLM steering-prefix training, activation collection via forward hooks, and jailbreak detection; decoupled GPU-bound ML workloads into dedicated microservices, introduced GPU autoscaling with vendor-aware scheduling (NVIDIA CUDA & AMD ROCm), and configured quantization fallbacks to prevent CUDA out-of-memory (OOM) failures during massive model parameter loads.
- Built an Agentic Maritime Intelligence Platform fusing real-time acoustic/sonar sensor feeds with a geospatial knowledge graph; trained vessel-classification models, authored Bayesian path-prediction algorithms, and integrated an agentic feedback loop with LLM-driven explainability panels to capture analyst corrections for continuous model re-alignment.

Booz Allen Hamilton, Arlington, VA - MLOps Engineer

Security Clearance: Secret (Active)

April 2023 - December 2025

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- As a part of the ROOF AI project, Implemented an IaC managed multi-cluster MLOps platform on AWS GovCloud, using KServe for scalable inference and Karpenter for resource optimization. Cut costs by 20% and reduced time-to-production, enabling efficient large-scale deployment and continuous model updates using Argocd and Jenkins.
- Built and maintained pipeline for configuring STIG hardened containers for model deployment and data pipelining.
- Spearheaded the design and implementation of GitOps pipelines, optimizing the end-to-end workflows for container image testing, building, and releasing.
- Architected and maintained Infrastructure-as-Code (IaC) for a EKS hosted Jenkins-based CI/CD instance, customizing the software development lifecycle to better align with business requirements. Utilized Github actions to manage and deploy the IaC state.
- Mentored aiSSEMBLE squad in DevOps and MLOps best practices that were crucial for successful deployment and maintenance of AI systems in production environments.

Collibra Inc, Arlington, VA - MLOps Engineer

December 2021 - April 2023

- Built and maintained numerous CICD pipelines deployed via jenkins to run and maintain terraform code to stand up multi-node clusters handling hundreds of machine learning models, build and deploy custom container images, and automate code pipelines.
- Implemented Kubeflow environment deployed via helm and deployed multiple end to end ML deployments and use cases.
- Integrated Airflow environment to create multiple ETL pipelines that gathered model information, performed data processing for model training, and other use cases.
- Created model evaluation monitoring and logging pipeline for numerous models to help trigger retraining and track model performance.
- Developed and maintained an asset recommender model deployment pipeline using OpenSearch, FastAPI, and FAISS.
- Leveraged Cloudwatch, Lambda, and Cloudwatch alarms to monitor and alert service outages and calculate SLA's for our machine learning workloads.
- Helped maintain AWS fedramp EKS environment by updating container images to ensure compliance based off CVE reports and keep cluster nodes freshly rotated and updated.
- Mentored sales teams on technical aspects of our ML platform and capabilities, enabling them to effectively communicate product capabilities and value propositions to clients.
- Helped onboard and coached 2 junior engineers as they joined the team for 1 year.

SAS Institute, Cary, NC - Solutions Architect

July 2019 - December 2021

- Built standalone MLOps training Azure Cloud based environments and courses for hundreds of customers and internal employees.
- Used Terraform to build, administer, and deploy GCP and AWS based microservice applications for hundreds of users in, managed via Kubernetes.
- Used prometheus, grafana, and thanos to monitor kubernetes workloads and ensure consistent uptimes.

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- Deployed cloud governance automation using cloud custodian to enforce cloud governance policies, manage cloud costs, and encourage best practices in multiple internal AWS, Azure, and GCP cloud accounts.
- Integrated various ML models using API's to help set up a CICD process for training, deploying, and retraining models.
- Mentored MLOps efforts within LATAM/North America Regions, guiding teams on implementing best practices and resolving technical challenges.
- Mentored yearly intern cohorts both years and assisted in their onboarding and project delivery and task guidance.

North Carolina State University Poole College of Management, Raleigh, NC - Course Manager

April 2019 - July 2021

- Managed multiple MBA courses covering Data Driven Managerial Decision Making.
- Used LaTeX, Python, and R to help provide resources for students to learn the course material and provide solutions to homework problems.

Lawrence Livermore National Laboratories, Livermore, CA - Data Scientist (Capstone)

November 2018 - May 2019

- Used Tensorflow to build a Convolutional Neural Network to predict parameters given a topographic fusion image. Built and deployed both GAN and CNN models.
- Worked with Docker containers to deploy multiple models for a VR simulator.

EDUCATION

Brigham Young University, Provo, UT - Applied Statistics and Analytics

2015 - 2019

Course work: Bayesian Statistics, Data Mining, Machine Learning, Regression, Time Series, Deep Learning, Computer Vision, NLP, MCMC sampling and modeling, Business Japanese, Base and Advanced SAS

PERSONAL PROJECTS

- [ChatBom.AI](#): Developed a RAG web application leveraging a large embedded corpus of text. Leveraging langchain, Next.js, React pinecone, and other tools.
- [RoastMyCV](#): Created an AI-powered resume critiquing tool using generative-AI to provide personalized feedback on resumes. Leveraging langchain, Next.js, and React.

ACTIVITIES

Brigham Young University Data Science Club - President

Volunteer Missionary, The Church of Jesus Christ of Latter Day Saints, Japan

Personal Github - <https://github.com/jocobtt>