

# DEVIN OTTO

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## Professional Summary

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AI engineer with 6 years of experience designing and deploying scalable machine learning and MLOps pipelines. Skilled in Python, AWS SageMaker, Databricks, Spark, and PyTorch for building and operationalizing models including fine-tuned GPT-4. Built low-latency inference services and led cross-functional teams to deliver end-to-end AI solutions.

## Skills

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- **Languages:** Python, TypeScript, JavaScript, SQL
- **Frameworks:** Flask, FastAPI, React, Node.js
- **Machine Learning:** PyTorch, XGBoost, Random Forest, PEFT tuning, embeddings, feature engineering, Conversational AI, Deep Learning, Reinforcement Learning
- **Data and MLOps:** Databricks, Spark, ML pipelines, automation, model training and deployment
- **Cloud and DevOps:** AWS SageMaker, EC2, S3, Neptune, GCP, Docker, CI and CD, Azure Cloud, Git
- **Other:** API design, systems design, workflow automation, CA Real Estate Salesperson License, JIRA

## Experience

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### Allogene Therapeutics

**Aug 2023 - May 2025**

*Scientist*

*South San Francisco, CA*

- Designed internal MLOps pipelines on Azure Cloud for classification, regression, and clustering
- Trained models using PyTorch, Random Forest, and XGBoost, applying deep learning techniques to improve accuracy
- Built automated pipelines using AWS, Databricks, Pandas, and Spark with version control in Git
- Tuned a GPT-4 conversational AI model using PEFT
- Led Process Development efforts on the Datalake Engineering Team
- Executed DOE programs to generate standardized datasets

### Allogene Therapeutics

**Feb 2021 - Aug 2023**

*Senior Associate Scientist*

*South San Francisco, CA*

- Led Benchmarking implementation and automation roadmap
- Built ML prototypes using reinforcement learning for early predictive systems
- Served as SME for automated processing systems
- Upgraded pipelines and data flows across three sites
- Built internal dashboards and analytics tools

### Bristol Myers Squibb

**Sep 2019 - Jan 2021**

*Manufacturing Associate II*

*Seattle, WA*

- Improved operational workflows for commercial CAR T manufacturing
- SME for Xuri Wave bioreactor and SOP optimization
- Built scheduling systems for cross shift operations
- Wrote validation and process transfer documentation

### Kite Pharma

**Feb 2018 - Sep 2019**

*Cell Therapy Specialist*

*El Segundo, CA*

- Led deviation reduction and data centralization projects
- Redesigned batch record flows to support digital transition
- Built cloud automation tools using Power Automate and integrated workflows tracked via JIRA

## Education

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### University of California, Davis

**Jan 2012 - Jan 2016**

*Bachelor of Arts, Plant Molecular Biology*