# HI, I'M CONNOR BRINTON

*I'm a machine learning engineer with experience building, deploying, scaling and iteratively improving ML services that power millions of user interactions every month.*

## Recent Experience

### Senior Machine Learning Engineer
Zoom
May 2022 –

*acquired by Zoom*

### Senior Machine Learning Engineer
Solvvy
February 2021 – May 2022

### Data Scientist
Solvvy
June 2018 – January 2021

## Education

### Master of Science
Stanford University
Biomedical Informatics
*Conferred June 2019*

### Bachelor of Science
Stanford University
Computer Science
Emphasis in Artificial Intelligence
*Conferred June 2018*

## Publications

"How GPCR Phosphorylation Patterns Orchestrate Arrestin-Mediated Signaling," *Cell*, December 2020

## Accomplishments

- Led data science team strategy and day-to-day operations over the past year and a half, including roadmap planning, hiring, team assignments, daily standups, weekly team meetings and cross-department communication

- Increased end-user self-service rates from 27% to 54% by enhancing our question-answering and intent detection models, resulting in a 33% reduction in support costs for our clients

- Pioneered use of fine-tuned multilingual foundation models to expand and enhance language support and cross-lingual transfer capabilities across our machine learning products

- Maintained extremely high uptime of our machine learning services, despite growth from less than 1M to nearly 7M sessions per month, by continually enhancing our Kubernetes-based machine learning platform

- Significantly reduced code review and new team member onboarding time by introducing a standardized set of CI checks across all Python repositories, including linting using PyLint, type-checking using Mypy and autoformatting using Black

## Open-Source Contributions

- TensorFlow: Loosen version constraints on typing-extensions
- TensorFlow Text: Fix macOS packaging
- spaCy: Add Mypy check to CI and introduce many type annotation improvements
- Thinc: Fix Mypy plugin crash on variadic arguments
- Flair: Show allennlp import errors when installed
- Poetry: Fix request authentication when credentials are included in URLs
- Typeshed: Fix incorrectly named parameters in logging module
- GQL: Add type overloads for getexecutionresult
- Graphene-SQLAlchemy: Don't suppress SQLAlchemy errors when mapping classes
- MDTraj: Optimize baker_hubbard and wernet_nilsson functions
- Documentation contributions to HF Transformers, Ariadne, Boltons and Cirrus CI

## Technologies

| | |
|---|---|
| DEEP EXPERIENCE | Python  Poetry  Mypy  Flask  Tornado  Starlette  GraphQL  SQL  NumPy  SciPy  Pandas  Scikit-Learn  TensorFlow  PyTorch  spaCy  HF Transformers  Git  Docker  Kubernetes  Argo Workflows  PostgreSQL  Rasa |
| FREQUENT USAGE | TypeScript  PyLint  Black  loguru  PyTorch Lightning  Optuna  modAL  Eli5  ELI5  Google Cloud Platform (GCP)  Datadog  Pulumi  Dependabot |
| FAMILIAR | C/C++  Java |
| FUN STUFF I USE | Zsh  Starship  bat  fd  dust  PyEnv  Volta  Exa  Zoxide  ripgrep |
| CERTIFICATIONS | Data Engineering with Google Cloud  Rasa Developer |