John Doe

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Education

Princeton University Oct. 2021
Master of Science in Computer Science (GPA 3.7/4.0)

Stanford University Sept. 2019
Bachelor of Science in Computer Science (GPA 3.6/4.0)

Experience

Google LLC Jan. 2022 – Present
Research Software Engineer Mountain View, CA

- Reduced back-end's query response time by 15 % via ML-driven "smart caching" (Python, PyTorch, Redis, Flask).
- Developed a reinforcement learning algorithm (Python, PyTorch, MLflow) that increased ad click-through rates on category-B-websites by 4 % by automatically optimizing ad placements.
- Reduced deployment time of multiple Google-maintained open-source microservices by 20 % by implementing scalable CI/CD pipelines (GitHub Actions, pytest) and implementing common OOP design patterns.

Meta Platforms, Inc. Apr. 2019 – Aug. 2019
Research Software Engineer Intern Menlo Park, CA

- Increased system accuracy of an internal content moderation research tool by 25 % by developing and implementing a collaborative filtering algorithm (Python, scikit-learn, NumPy, SciPy, Polars).
- Improved recall of image recognition system for content moderation by 5 % by implementing novel CNN architectures from 5 + research papers (Python, PyTorch).
- Streamlined data visualization workflow for internal audits by creating automated tools (Matplotlib, Flask, Python, JavaScript, Tailwind CSS) with direct access to SQL-based database systems and other internal Java-based microservices.

Projects

Chemical reaction prediction with ML Nov. 2020

- Increased reaction prediction accuracy by 30 % for retro-synthesis tasks by developing a deep-learning-based model (Python, PyTorch) that predicts reaction pathways for chiral amines.
- Reduced model training time by 50 % by implementing a distributed training pipeline with PyTorch, Dagster, and Ray on Google Cloud Platform (GCP).
- Enhanced prediction interpretability by creating visualization tools for reaction pathways (Matplotlib, seaborn, Flask).

Personalized learning platform Jan. 2018

- Enhanced student engagement by 30 % by implementing a recommendation system using collaborative filtering and content-based filtering techniques (Python, scikit-learn, TensorFlow, pandas).
- Improved recommendation accuracy by 25 % by training a hybrid model with TensorFlow, integrating it with a Django back-end and React fron-tend (Django, React, PostgreSQL).
- Increased platform usability by developing a responsive user interface and automating data collection processes from users and the university's website (JavaScript, HTML, CSS, Selenium).

Skills

Languages: English, French, Spanish
Programming: Python, C++, Java, JavaScript, SQL, HTML, CSS
Tools: Git, Polars, Docker, Google Cloud Platform (GCP), pandas, MLflow, PyTorch, Dagster, pytest, scikit-learn, NumPy, CI/CD (GitHub Actions), Matplotlib, PostgreSQL, Redis, SciPy, Flask, Tailwind CSS