Ericka Wu

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EDUCATION

Columbia University   **Aug 2017 - May 2021**

Dual B.A. in Statistics and Computer Science: GPA 3.93

Relevant Coursework: Causal Inference, Distributed Systems, Artificial Intelligence, Machine Learning, Data Visualization, Statistical Inference, Algorithms, Probability

Programs and Activities: Columbia Music Performance Program, Alpha Kappa Psi, Peer Health Exchange, Data Science Society

SKILLS

Languages: Typescript, Python, HTML/CSS, SQL, Golang, Scala

Technologies & Frameworks: React, React Fiber, WebGL, AWS, MongoDB, Tailwind, Kubernetes, Luigi, Spark

Visualization & Design: d3, Figma

EXPERIENCES

Scale AI | Senior Software Engineer, AVCV   **April 2023 - Present**

- Serving as a tech lead for four engineers and one designer to build from scratch a new frontend service for image, video, and projected lidar scene labeling using WebGL and React Fiber
- Owning engineering and roadmapping for labeling tools, programmatic and ML-assisted quality checks and metrics, performance monitoring, and feature mounting
- Onboarded and transitioned 30% of project queues from legacy to current labeling tool in one quarter

Scale AI | Software Engineer, Mapping & Sensor Fusion   **July 2021 - April 2023**

- Zero-to-one engineer on Globally Consistent Maps, Github for large-scale HD maps: architected and implemented branching, forking, merging, and conflict detection to support iterative map updates and concurrent labeling workflows
- Prototyped, developed, and maintained core sensor fusion technologies including computational geometry algorithms for polygon and line manipulation, data alignment across geometric coordinate systems, height and camera projection editing
- Piloted a generalizable framework for executing custom transitions across any multi-stage labeling pipeline, laying a foundation for flexible operational tooling across the company

Datadog | Logging, Data Engineering Intern   **Jun 2020 - Aug 2020**

- Built and scheduled ETL pipelines using Luigi and Spark to consolidate logging metrics weekly from Postgres tables with over 50 million rows, refactoring legacy code and removing a two-day long query
- Configured Kubernetes cronjobs and implemented an alerting system to monitor data creation
- Implemented a Luigi pipeline streamlining the manual oncall process of deleting and replenishing invalid log data

ServiceNow | Software Engineering Intern   **May 2019 - Aug 2019**

- Engineered an iOS feature allowing users to scan, record, and receive their hardware assets

PROJECTS

PictioAIary: Whimsical Prompt Inference Experiment

- Fine-tuned and evaluated of CLIP for zero-shot image-to-text classification on sketches from the Google QuickDraw dataset
- Deployed with a frontend canvas interface and exploratory idiomatic prompt generation to allow the user to interact with the model and assess its creative capabilities

Faces of European Portraits at the Metropolitan Museum

- Visual essay crafted in d3 illustrating changes in artistic and aesthetic representations of the human face over time
- Applied computer vision techniques to extract, process, and analyze facial features to derive averaged representations

Lionbase | Ridgeway Partners Recruiting Platform

- Built a baseline resume parsing and scoring pipeline trained on in-house recruitment and interview data
- Iterated upon a recommendation system to suggest candidates to companies based on technical skill and cultural fit