

# Sebastian Larson

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## EXPERIENCE

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### Machine Learning Intern

June 2021 – October 2023

*TangibleAI*

*San Diego, CA*

- Developed a text-to-numbers lexical parsing algorithm in Python which was used in a math instruction chatbot used by over 20k students
- Worked with time series data to predict various features like housing prices
- Finetuned BART for paraphrasing

### Software Engineer

September 2023 - December 2023

*Chambiar*

*Remote*

- Worked with a team of developers to build an interview prep application using Typescript, Python, Next.js, Livekit, TRPC, and SQL (Postgres) as the main developer. Deployed on Google Cloud.
- Used SCRUM project management as a developer working on a team

### Full Stack Developer

September 2022 – October 2023

*Freelance*

*Remote*

- Worked with Python and Facebook Prophet to build machine learning stock trading tools used by over 1k traders
- Developed various small web apps using Typescript, Next.js, React, TRPC, and SQL (Postgres). Deployed on AWS and Google Cloud

## PROJECTS

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### E | *Typescript, Next.js, React, Tailwind CSS, TRPC, Prisma, PostgreSQL*

June 2023 – July 2023

- Developed a full-stack web application to simulate surveys using Next.js, React, and TRPC for type-safe API calls
- Implemented API calls to Google Palm2
- Used Palm2 to simulate surveys based on a user-provided question and personas
- Used PostgreSQL and Discord OAuth for authentication and storing survey results
- Deployed on Railway

### Finetuned BART | *Python, HuggingFace SDK, Pandas, Numpy*

June 2021 – August 2021

- Finetuned BART for paraphrasing using the HuggingFace Python SDK and Pandas for data processing
- Implemented Python scripts for managing git LFS for model and data storage
- Gave a presentation on the project at San Diego Python

### Style transfer app | *Python, Javascript, Tensorflow, Django*

May 2021 – June 2021

- Trained an image style transfer model (taking the "style" of one image and applying it to another)
- Implemented a Django website and frontend (in vanilla Javascript) for providing a user interface to the model
- Hosted the model using Tensorflow Serving
- Deployed the Django app and model on AWS

## TECHNICAL SKILLS

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**Languages:** Java, Python, Javascript/Typescript, SQL (Postgres), HTML/CSS

**Frameworks:** Next.js, React, TensorFlow, PyTorch, FastAPI, TailwindCSS, Django

**Developer Tools:** Git, Docker, AWS, Google Cloud, Railway, HuggingFace

**Libraries:** pandas, NumPy, Matplotlib, Prisma, TRPC, HuggingFace SDK