

Elgin Beloy

Full Stack Software Engineer with a passion for ML

elginbeloy.com

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EXPERIENCE

Self Employed — Software and ML Contracting

FEB 2023 - Present

Working to find solutions to problems for various companies from marketing agencies to tech startups. Some solutions I have delivered include: multi-user editing functionality via websockets and CloudFlare DO workers; non-API Reddit web scrapping and clustering/categorization pipeline for gathering consumer insights; Python distributed worker queue for initiating LLM, Elevenlabs, and Twilio powered phone calls..

Google, Mountain View — Software Engineer

OCT 2019 - DEC 2020 (1 year 3 months), JUL 2021 - FEB 2023 (1 year 8 months)

Hired on my 18th birthday, I first worked as an engineer on the Google Smart Displays and Google Home App. I collaborated across teams to help deliver new experiences for Smart Display Sleep Intelligence and develop a trait editor UI for Home Automation Routines. After a short break, I re-joined Google in 2021 in the Payments PA. There I focused on updating the Java backend to handle new regulations from the regulatory bank of India.

Storr, San Francisco — Software Engineer

JUL 2019 - OCT 2019

As one of the first few engineers at this SF-born startup, I helped to build a high-growth E-commerce app, developing a JavaScript frontend analytics system and an Android + IOS React Native app powered by a GAE backend w/ Firebase and BigQuery.

ML Startup, San Francisco — Founder

APR 2018 - JUL 2019

At 16 I dropped out of high school to start a company in the ML space. Moving from MN to California, we raised \$2m in seed funding from accredited investors, teamed up with a CEO who had more business acumen than myself, and grew a team from zero to eight people in a year. Although I left, we delivered machine learning solutions for identifying countertop types, finding cracks in countertops, reading license plates from images, and other bespoke models before large generalized models dominated.

SKILLS

Java, Python, JavaScript (Vue, React), C++, Rust, SQL, MongoDB, AWS, GCloud. Linux (I use Arch btw). Android. ML.

PERSONAL PROJECTS

Backtester — *Python*

A US equities, tick-level (w/ NBBO) backtester:

- REST downloading of tick/NBBO data from polygon.io
- Data cleaning (NA values, splits/dividends, liquidations, etc...)
- Various bar time granularities including support for information driven bar types
- Metrics including: Sharpe + Sortino ratio, returns distribution, days in market, passive basket returns, etc...

ML Similar Songs Bot —

Python (Selenium, Keras)

A program that crawls YouTube Music to find songs similar to an advertising candidate. Song similarity is based on the cosine distance between the output vector of a genre classification CNN (removing the softmax layer) trained on audio spectrograms.

Portfolio Site — *HTML/JS*

On my website I have a number of other projects as well as Github links.