

## Technical Skills

**Strong:** Python - Bash - Javascript - Typescript - Django - GCP - React - ChakraUI - Selenium - VertexAI  
**Experienced:** Docker - K8s - Snowflake - Elasticsearch - DBT - Heroku - AWS - LaunchDarkly - Segment - Jest

## Professional Experience

### Product Engineer, Sr North

<https://north.com/> Remote [2023-Present]

- Architected, developed, and deployed from soup to nuts (NorthGPT), **multi agent microservice API and Platform for retrieval augmented generation with ranked fusion, Flutter UI, FastAPI, Okta security bells and whistles**, Deployed versioned models using **VertexAI, HuggingFace**, for **model tuning**
- **k8s Terraform** deployment pipeline **LLM based ELT Snowflake UDFs** for call transcripts using **NodeJS, Golang, Rust**
- Deployed a massively parallel GCP **Celery** cluster for distributed vectorization of LLM documents to **multi tenant Redis Server**
- **Worked with a team** (5 people) and leveraged a wide range of technologies, including **FastAPI, Griptape, Redis, PostgreSQL, JavaScript, Jinja, GCP, Kubernetes**, and **Snowflake** and collaborated with various stakeholders to deliver high-quality solutions

### Team Lead Software Engineer Property Meld

<https://app.propertymeld.com/signup> Remote [2018-2023]

- As Employee 6, I played a pivotal role in scaling the company from its early stages to a thriving business, ultimately leading to a successful Series A & B funding rounds. My last year, facilitated **1.7 million maintenance requests** and nearly **\$550M** in maintenance repairs. My contributions include:
- Establishing a robust data pipeline by leveraging **Fivetran, Snowflake**, and **dbt**, which streamlined our data management processes, enhanced reporting capabilities, and ultimately informed strategic decision-making for the company. Focusing on data driven product development.
  - Rewrote the entire stack to run in **docker**, and **kubernetes**, in order to in the future move the system out of heroku.
  - Developed key components and features for our **Django** application, utilizing my expertise in **TypeScript, React**, and **Python**.
  - Spearheading the adoption of an internal knowledge management system, which paved the way for our rapid expansion from 6 to 70+ employees and a **10x** increase in monthly recurring revenue (**MRR**).
  - Authoring the public API, and comprehensive public API documentation, accessible at <https://docs.propertymeld.com/>, that facilitated seamless integrations with our partners and clients.
  - Actively participating in the **hiring** and **onboarding** process for new engineers, fostering a strong and collaborative team culture.
  - Showcasing my versatility and initiative by developing a skunkworks mobile app using Expo, demonstrating our commitment to continuous innovation and staying at the forefront of industry trends.
  - Leading a critical project to migrate our production PostgreSQL database from Heroku to Aiven.io, ensuring seamless data transfer and enhanced performance for our growing customer base.
  - Organizing internal knowledge sharing lunch and learns, helped leadership identify a community grown talent pipeline

### Software Engineer III eBay

San Francisco, CA [2016-2018]

- Created, maintained, and added features to tooling to train **machine learning algorithms** (Conditional Random Fields).
- Automated deployment of distributed map reduce cluster (disco), increased test coverage, wrote integration tests.
- Rewrote **map-reduce** cluster for deployment on **kubernetes, cgroups** and containers.
- Implemented an **ICAP squid proxy** server for crawling **javascript injection** - regular usage of **openstack**
- Maintained, Extended deployment automation through the use of **docker, fabric, jenkins, github webhooks**
- Built several tools to shuffle data between openstack, **hadoop, Knox-proxy, teradata**, and the crawling system
- **RL, ML, and conditional random fields** for new product recognition, **large scale map reduction for KV ingestion**

### Software Developer ClutchAnalytics

Austin, TX [2015-2016]

- Trained new hires, testing, pair programming, REST api endpoints, MongoDB, 3rd party integrations, payment processing

### eCommerce Developer Skygroup Closeouts

Minneapolis, MN [2013 - 2014]

- Automated online marketplace listings on eBay and Amazon (\$1.5M in sales) Wrote warehouse management system.

### Support Specialist II Xerox, R.T.S. LLC

Fargo, ND [2011 - 2013]

- Remotely supported all storewide technologies for 18K+ McDonald's stores. Triage, escalation, and resolution.

## Education

### Hack Reactor Graduate

Advanced Software Engineering Immersive

Austin, Tx [2015]

### BA Fine Arts (Painting)

Minnesota State University Moorhead

Moorhead, MN [2012]

### Pursued Majors

BS Art Education - BSE Mechanical Engineering

Fargo, ND [2007-2011]

### Personal Interests

Gardening, Motorcycling, Snow, Rain, Sunshine, Tinkering, Mutual Respect