

Professional Summary

I am an effective leader and experienced engineer with over 10 years in software. I have extensive knowledge and leadership experience in Agile, full-stack development from microservices and APIs to databasing and security. Additional fields of interest/expertise include data science, sports statistics, blockchain technology, and fund administration.

Technical Skills

- Python (9+)
- Django (5)
- Flask (5)
- FastAPI (5+)
- Go (8+ yrs. exp.)
- REST APIs (9+)
- GraphQL (4)
- DevOps (7+)
- AWS (7+)
- Linux (8+)
- Git (9+)
- GCP (4+)
- Docker (8+)
- Kubernetes (6+)
 - Helm (5)
 - Terraform (3+)
- JavaScript (7+)
 - React (6)
 - Astro (3)
 - Node (4+)
- MongoDB (6+)
- Redis (5+)
- DocumentDB (4)
- PostgreSQL (7+)

Education

**Bachelor of Arts;
Political Science**
**University of
Michigan**

Class of 2018

- Concentration in Computer Science
- Member of Mens' Rowing Team

Professional Experience

Software Engineer; Noteefy Inc.

Jan 2024 — July 2024

- Created and managed web crawlers for hundreds of tee time origin sites.
- Decreased overall alert latency/disk usage by a factor of 3 by parallelizing existing matching logic.
- Built and integrated Members' priority features for private and semi-private clubs.
- Configured anti-bot software mitigation techniques across several web crawler types.

Senior Cloud Developer; Intrusion Inc.

Nov 2022 — Apr 2023

- Designed and managed multi-cloud deployment of Go microservices for Intrusion's cloud solutions.
- Developed REST API framework for modernization of Intrusion's on-prem device management.
- Converted legacy Python API monolith to Golang microservice structure on AWS EC2 instances.
- Deployed/maintained production API cluster on EKS with CI/CD through CircleCI/ControlPlane.

Lead Backend Developer; AllAthlete Inc.

July 2020 — Nov 2022

- Managed a growing team (2-6) of backend developers responsible for data/DevOps infrastructure.
- Developed a robust set of Golang and Python REST APIs to support the AllAthlete platform.
- Deployed new Go REST APIs to replace less optimized Python implementations of internal services.
- Scaled services for rapid user growth and maintained availability/performance across our regions.
- Grew to over 125,000 total users across web and mobile platforms, with a significant %MAU.
- Created multiple token-based authentication systems for API services and frontend apps.

Data Engineer; Think Unlimited, L.L.C.

Mar 2020 — July 2020

- Delivered custom software and data science solutions based around ETL pipelines.
- Built performant ETL pipelines using Python API/worker structures and MS SQL/PostgreSQL dbs.
- Led conversion of internal data processes (ETL, etc) to a new custom solution in Python.
- Developed automated client-market segmentation systems supported by Golang REST APIs.

Data Science Lead; tryptych inc.

Jan 2018 — Mar 2020

- Managed small (2-3) dev team delivering tailored software and data science solutions.
- Built custom data visualizations using Python and packages including pandas and matplotlib.
- Created front-end frameworks with React fed by data from internal REST APIs written in Golang.
- Developed custom CRM and data management solutions using JS frameworks and Go APIs.

Engineering Lead; AQX Innovations L.L.C. (formerly Hades, L.L.C.)

Jan 2016 — Jan 2018

- Managed a dev team of 3-5 employees as a leading contributor to our Golang codebase.
- Lead algorithmic development for digital exchanges in Golang with related smart contracts.
- Developed and operated (Azure) predictive market-making algorithms using Python and Golang
- Created smart contracts using Solidity, Vyper, and Rust for market-making on digital exchanges.
- Created and maintained data pipelines for digital exchange order book analysis in Python.

Board of Directors (Director); The Drew Poet Foundation 501(c)(3)

Apr 2019 — Nov 2024