

# Eugene Sokolov

New York, NY

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Full stack engineer with 8 YoE looking to join a high growth organization - solving interesting software and data problems that matter, while helping to build effective and collaborative team dynamics, culture, and work norms.

## Skills

**Languages:** Python (FastAPI, Flask, pandas), SQL, NoSQL (Redis, Mongo), Typescript (Vue, React, Angular)

**Design:** database design, automation, CICD, infrastructure, AWS, Terraform, git, Linux

## Experience

**Pattern Research** New York, NY

2022-

*Head of Engineering*

- Leading a team of 7 developers to build an internal crypto trading platform - setting culture and team norms
- Overhauled internal data processing pipelines to create a robust backtest and research framework allowing for traders to create new strategies with ease
- Designed and guided the build of an internal full stack application which provides strategy introspection, order entry, and real-time monitoring of trading engines
- Designed and created new back office and accounting frameworks that are largely automated, saving tens of thousands of dollars in operational costs
- Built CI-CD stack to automate tests, migrations, and, code deploys, saving develops countless hours

**The Cooper Union for the Advancement of Science and Art** New York, NY

2018-

*Adjunct Professor (part time) - ECE 464: Databases*

- Teaching a graduate level course exposing students to theoretical and practical applications in modern database development
- Topics include: relational data model, SQL, ORMs, database design, NoSQL, "Big Data"

**Flatiron Health** New York, NY

2020-2022

*Senior Software Engineer*

- Collaborated with product and design teams to create a self service oncology research data ETL system
- Lead and coached a small team of engineers to build new features and follow software best practices
- Built and released features which automate functionality in project pipelines, saving users time spent by 10x
- Served as a team architect to set team norms and improve the developer experience

**Adaptive Management/Knoema** New York, NY

2019-2020

*Senior Software Engineer*

- Developed and supported Oasis, an alternative data infrastructure and ETL ingestion system, processing TB of data daily
- Decreased client response times 1000x by redesigning an 'ingestion database' schema
- Developed and supported DataMonster, a data management and visualization Flask web application
- Increased productivity 20x by improving developer coding experience, PR processes, testing, and dev ops
- Increased revenue 15% by suggesting a major feature and wrote product specs, giving more fine grained introspection and control over charting tools

**Hudson River Trading** New York, NY

2016-2019

*Software Developer* (Series 57 certified)

- Monitored live trading weekly, tended to operational issues in a fast paced environment, and debugged mission critical software handling hundreds of millions of trades daily
- Built Python processes and automated workflows to streamline company procedures and operational requests
- Created system to automate ETF order placement, managing notional values of \$1-10 million daily

## Projects and Research

**Feature Selection and Model Analysis of Predicting Jira Issue Attributes:** *Masters Thesis*

2016-2017

- Researched Jira to determine factors that drive issue completion time, priority, and resolution using regression methods

## Education

**The Cooper Union for the Advancement of Science and Art** New York, NY

• Masters of Engineering (M.Eng.), Electrical Engineering **4.0 / 4.0**

2017

• Bachelors of Engineering (B.Eng.), Electrical Engineering **3.5 / 4.0**

2016