Dominic Magats

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Education

Stevens Institute of Technology Expected May 2028
Bachelor of Science in Computer Science, Mathematics *Hoboken, New Jersey*

- **Relevant Coursework:** Multivariable Calculus, Linear Algebra, Discrete Mathematics, Data Structures, Algorithms, Computer Architecture, Probability and Statistics

Experience

Stevens Student Managed Investment Fund Jan 2025 – Present
Quantitative Engineer *Hoboken, New Jersey*

- Created statistical model pipeline using economic data to train and dynamically create, train, and execute models to predict sector outlooks and optimize working portfolio.
- Engineered highly available Kuberenetes cluster to manage all deployments and databases using K3s, Cilium as CNI, Traefik and Cilium for ingress, ALB, MetalLB, observability with Grafana Alloy, VictoriaMetrics, and VictoriaLogs, and more.

Guestlist Jan 2025 – July 2025
Software Engineer *Remote*

- Created venue reservation marketplace to trade exclusive restaurant reservations and deployed to GCP.
- Wrote REST APIs in Go to facilitate payments through Stripe, provide restaurant data, and other metrics such as top restaurants by name, location, or popularity using PostgreSQL.

Verge Jun 2023 – Aug 2024
Founding Engineer *Remote*

- Architected and led the development of a financial data aggregation platform that enables users to manage personal and family finances in a single dashboard.
- Engineered REST APIs in Go and GraphQL to enable real-time data aggregation and synchronization across user accounts.

Breeze April 2022 – October 2022
Software Engineer *Remote*

- Developed and maintained core Solana blockchain modules in Go, including rewrites of Metaplex's Candy Machine program and Magic Eden's Launchpad, enabling users to efficiently manage and acquire decentralized assets such as NFTs.
- Maintained a private RPC node on Solana's network, significantly reducing transaction times and boosting performance by significantly minimizing latency during blockchain interactions.

Projects

Data Ingestion Pipeline | *Go, Python, ClickHouse, Redis*

- Created ingestion pipeline to maintain time series economic data including thousands of macroeconomic factors, equities, and fixed income data to centralize data access.
- Automated daily ingestions through Go and Python REST APIs managing thousands of tickers, storing data in ClickHouse.

Random Forest Classifier | *Python, Yahoo Finance, Pandas, NumPy, scikit-learn*

- Implemented a Random Forest Classification model to predict stock price directions through features such as RSI, MACD, and other technical indicators, achieving 92% prediction accuracy over a 90 day time period, trained on 1 year of historical data.
- Integrated a backtesting framework in Python to validate the strategy, achieving cumulative returns of 13%.

Technical Skills

Languages: Rust, Go, Python, C++, TypeScript, Java, JavaScript, SQL
Technologies: Kubernetes, Docker, FastAPI, Flask, Spring, Express.js, TensorFlow, Flask, Node.js, Electron, Gradle, gRPC, Maven, AWS, GCP, Redis, PostgreSQL, ClickHouse, MySQL, MongoDB, Github Actions, Terraform, LLDB, Bash
Concepts: Machine Learning, Neural Networks, Artificial Intelligence, Quantitative Finance, Operating Systems, Memory Management, Encryption, APIs, Cloud Computing