Alexander Domnikov Jr.

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EDUCATION

Georgia Institute of Technology
Atlanta, GA
Master of Science in Computer Science
Jan 2026 - Present

Orange Coast College
Costa Mesa, CA
Prerequisite Courses for Computer Science Master Programs
Jun 2024 - Dec 2025
- GPA 4.00 / 4.00
- Relevant coursework: Intro Java, C++ 1-2, Data Structures/Algorithms in C++, Discrete Structures, Calc 1-3

Brigham Young University – Marriott School of Business
Provo, UT
Bachelor of Science in Finance
Apr 2022
- GPA 3.85 / 4.00

EXPERIENCE

SNAP Life Sciences (*Early-Stage Biotech Startup*)
Cambridge, MA
AI & Full-Stack Development Intern
Dec 2025 - Present
- Designing and building a real options valuation engine for biotech drug programs in Python/FastAPI with a React/Vite front end, PostgreSQL, and AWS, using scikit-learn ML models to estimate phase transition probabilities and compute risk adjusted NPV
- Built Python ETL pipeline to extract, clean, and transform 3.3mm WHO Global Health Estimates records (185 countries, 215 diseases, 6 years); implemented automated validation checks and loaded into PostgreSQL for analysis
- **Tech stack**: Python (FastAPI, Pandas, scikit-learn), React/Vite, PostgreSQL, AWS, Git

Dodge & Cox (*$350bn+ AUM Value-Focused Investment Management Firm*)
San Francisco, CA
Equity Research Associate – Global Internet & Machinery Coverage
Aug 2022 - Aug 2024
- Received offer for promotion to Senior Equity Research Associate
- Built VBA automation to clean and standardize 10k+ rows of unstructured US construction spend data; analyzed industry cyclicality through visualizations to inform investment thesis; presented findings to committee of senior investment execs
- Researched generative AI legal landscape by analyzing proposed legislation, US Copyright Office guidance, and legal memos; conducted diligence meetings with AI experts and policy analysts to assess impact on Google's unit economics

JPMorgan Chase & Co.
New York, NY
Healthcare Investment Banking Summer Analyst
Jun 2021 - Aug 2021
- Received full-time return offer
- Built financial models (DCF, comparable analysis) in Excel to evaluate M&A targets; performed research on market share, revenue growth, and competitive positioning in healthcare; supported client presentations and deal execution

PERSONAL PROJECTS

Ephemeral Notes Feature (*Forked Codebase*)
github.com/alexdomnikov/reduced.to
- Designed stateless, self-destructing notes feature by compressing messages into URL hashes and routing through existing URL shortener; leveraged Redis TTL for automatic 30-min expiration with zero database schema changes
- Implemented XSS protection via plain-text rendering and wrote unit tests to ensure deterministic compression
- Successfully navigated unfamiliar TypeScript/Qwik/NestJS codebase to implement core feature functionality

Full-Stack Stock Price Tracker & Visualization App
github.com/alexdomnikov/Stock-Price-Checker
- Developed secure user authentication using Flask-Login and Flask-Bcrypt for hashing and session management
- Integrated Alpha Vantage API to fetch and parse historical data; added error handling for rate limits and invalid tickers
- Built SQLite relational database schema using SQLAlchemy (ORM) to manage user data and watchlists (CRUD)
- **Tech stack**: Python, Flask, SQLAlchemy, SQLite, Bootstrap, Jinja2, Plotly.js

SKILLS & INTERESTS

- **Core Stack:** Python (FastAPI, Flask, Pandas, scikit-learn), SQL, PostgreSQL, AWS, Git
- **Other Experience:** C++, Java, HTML/CSS/Javascript, Tailwind CSS, Bootstrap, React/Vite, Plotly, SQLite, Docker
- **Interests:** pickleball, board and card games, science fiction, LA Dodgers, astronomy, and Post-Impressionist art