Lucas Stone

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SUMMARY

Computer Science graduate (May 2026) with specialized research experience in scientific computing and high-performance simulation. **Incoming M.S. Data Science candidate (Targeting Fall 2026)** committed to a career in data analytics and machine learning. Proven ability to engineer robust ETL pipelines, execute computational workflows on HPC infrastructure, and derive actionable insights from financial time-series data.

EDUCATION

Florida State University **May 2026**
B.S. in Computer Science | GPA: 3.2 *Tallahassee, FL*
Relevant Courses: Advanced Artificial Intelligence (Search Algorithms, Neural Networks), Data Science (Pandas, Scikit-learn) Linear Algebra (Eigenvalues/Vectors, Matrix Operations), Database Systems (SQL, PostgreSQL)
Clubs/Activities: Fall 2025/Spring 2026 **ACM Programming Contest Question Writer**, Member of ACM and AWS Cloud Club

TECHNICAL SKILLS

Data Science: Python (Pandas, NumPy, Scikit-learn), Data Cleaning, ETL Pipelines, Time-Series Analysis
Languages: Python, C, C++, JavaScript
Big Data & Cloud: SQL, PostgreSQL, AWS (S3, RDS, EC2), Docker, HPC (SLURM)
Visualization: Matplotlib, Seaborn, Interactive Dashboards (React/Recharts)

EXPERIENCE

Undergraduate Research Assistant **Sep. 2024 - Apr. 2025**
Florida State University - Department of Scientific Computing *Tallahassee, FL*

- **Simulation & Modeling: Adapted** Python scripts within the CALYPSO framework to simulate Boron Nitride (BN) atomic structures, generating **900+ candidate configurations** for stability analysis
- **HPC & Optimization:** Utilized the CALYPSO particle swarm optimization algorithm on FSU's HPC cluster, managing job scheduling via SLURM to maximize computational efficiency
- **Data Analysis:** Processed simulation outputs to identify stable atomic configurations, using Python for statistical analysis and error analysis
- **Communication:** Synthesized complex structural data into visual representations which were presented alongside 200+ students at FSU's Undergraduate Research Symposium to 500+ attendees

PROJECTS

TrendTracker (Financial Data Pipeline & Analytics) (www.trendtracker.co) **2024-Present**
Python, PostgreSQL, Finnhub API, YFinance, SQL, Pandas

- **ETL Pipeline Development:** Built a Python-based extraction pipeline to ingest real-time financial data from Yahoo Finance and Finnhub, supporting full NYSE/NASDAQ coverage
- **Data Engineering:** Designed a normalized PostgreSQL schema to store complex time-series data, transaction logs, and historical pricing, optimizing for fast-retrieval during analysis
- **Algorithmic Categorization:** Developed a "Smart Categorization" feature using logic-based classification to tag and group banking transactions for spending analysis
- **Performance Optimization:** Implemented intelligent API rate limiting and server-side caching

Financial Dashboard & Visualization *Tools: React, JavaScript, Plaid API*

- **Data Visualization:** Transformed raw JSON financial data into interactive visualizations (line charts, pie charts)
- **Data Aggregation:** Integrated Plaid API to aggregate banking data into unified format for downstream analytics
- **Deployment:** Containerized the application using Docker on self-hosted Linux infrastructure with Nginx proxying

CERTIFICATIONS

- AWS Certified Cloud Practitioner (CCP), Amazon Web Services **Oct. 2025**