Matthew Russell

New York, NY

+1 (201) 783-7383

mattrussellc@gmail.com | linkedin.com/in/matthewrussellc

EDUCATION:

Virginia Tech Blacksburg, VA

B.S. Computer Science & **B.S.** Psychology

PROFESSIONAL EXPERIENCE

Software Engineer, AgriVaR   *June 2024 – Present*

- Re-architected legacy systems to optimize speed and redundancy on AWS for a big-data agricultural startup
- Built high-performance React interfaces for large, multi-dimensional datasets (geospatial + time-based variables), enabling fast exploration through color mappings, segmentation, and interactive analysis.
- Designed a commodity trading platform with streaming updates, data visualizations, and alerting workflows across multiple financial/commodity products in React
- Built a suite of drawing tools to empower hyper-granular geographical data analysis, allowing farmers to compare yields, revenue, and more factors across regions and time ranges, increasing future harvests by 20+%

Software Engineer II, BitWave *June 2023 – June 2024*

- Built a Rust CQRS analytics engine for financial/crypto reporting, cutting key query latency and reducing page load time from 4s+ to <1s
- Developed an internal Rust messaging system to process high-throughput events across distributed services (cloud-deployed), improving the reliability of ingestion and downstream analytics
- Engineered multi-chain balance + transaction indexing tooling for a digital asset platform, improving integrity and auditability of on-chain data used for customer reporting
- Orchestrated automated deployment + monitoring for Optimism token balances across 60+ chains, handling RPC/node metadata differences and chain-specific edge cases

Full Stack Software Engineer, Unilever | Liquid I.V.   *July 2021 – June 2023*

- Engineered enterprise software solutions to enhance logistics management for Unilever, focusing on simplicity, efficiency, and scalability
- Created a comprehensive web application to monitor and forecast inventory levels and sales data across numerous warehouses, distribution centers, and retail locations across the country
- Expertly designed user interfaces using React and TypeScript, emphasizing dynamic content loading for functionality
- Successfully deployed a robust data pipeline integrating a GraphQL API, DynamoDB, AWS Lambda/SES, and Cognito for impactful business analytics and user services

Programming Languages: Python, TypeScript, JavaScript, Rust, Solidity, Scala, Java, Swift, C, Racket

Technologies: React, Django, AWS, Google Cloud, ExpressJS, PyTorch, LangChain, Vector DB's, PostgreSQL

PROJECTS

Ora Health iOS App   *Mar 2025 – Present*

- Developed Agentic AI with dynamic behaviors utilizing a Multi-Vector Broadcast Architecture to intelligently carry on conversations on a variety of topics
- Delivers daily personalized meditations, affirmations, and mindset exercises powered by Eleven Labs

AWARDS

Geneva Tsinghua Initiative   **May 2018 – Aug 2018**

- Developed a wristband to alert motorcycle riders of dangerous situations using an Android Studio app which communicated over Bluetooth with Arduino device and AWS backend