Boris Avrumov

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EDUCATION

Macaulay Honors College at Brooklyn College   August 2015 - May 2019
Bachelor of Science (B.S.) in Computer Science, Minor in Finance   *GPA: 3.9*

TECHNICAL SKILLS

Languages & Libraries: Java, Protobuf, JavaScript/TypeScript, Angular, React, Python, C++, SQL, Bash, HTML/CSS
Technologies: Azure DevOps, gRPC, Kafka Event Bus, Spring, Maven, Mockito, NodeJS, Bootstrap, Flask
Applications: IntelliJ, VSCode, WebStorm, Git, Unix Shell, Aqua Data Studio, AppDynamics, Splunk, Grafana, Jira
Soft Skills: Mentorship, Public Speaking, Financial Literacy, Leadership, Documentation, Diversity, Equity & Inclusion

PROFESSIONAL EXPERIENCE

StubHub   New York, NY
SDE II   Feb 2024 – Present

- Automated **SQL**-based accounting journal creation for Viagogo and StubHub subsidiaries, reducing monthly manual effort by several days.
- Managed the month close process which outputs automated journals to be booked to NetSuite, and automated reconciliation, requiring analyst review only for exceptions.
- Developed a new journal type, SQL table, and stored procedures to book intercompany reclass transactions
- Integrated a new payment service provider (PSP) by developing an **ETL** pipeline to process their daily payment reports and reconcile them with our transaction tables monthly.
- Handled system health alerts and added monitoring to ensure journal completeness and reconciliation accuracy before month-end close.

BlackRock   New York, NY
Associate (SDE / Engineer III)   July 2019 – Feb 2024

- Enabled Authorized Participants (APs) to create and redeem shares of Exchange Traded Funds (ETFs)
- Productionized a **Java** economics calculation service that values more than $4 billion USD of daily order flow, by pulling latest prices, FX and interest rates, and other financial data
- Went live with 300+ iShares ETFs, including U.S. equities, international equities, fixed income funds, and Bitcoin
- Designed a system that manages ETF order states and transitions them based on various hooks and conditions
- Wrote plugins for a validation engine which evaluates business-user defined scripts, allowing them to automatically route orders or create guardrails around specific products, order types, and other properties
- Implemented **gRPC APIs** to facilitate communication in a microservices architecture
- Published **Kafka** events at different stages of the order lifecycle to inform interested parties of order updates
- Created server health visualizations on **Grafana** and **AppDynamics** by introducing telemetry using AOP pointcuts
- Highlighted performance issues which led to parallel processing of orders and role-based permission checks

MVI Systems   New York, NY
Full Stack Engineer   November 2018 – May 2019

- Updated **React** components to prevent users from submitting invalid information
- Implemented new sorting filters to give management users the ability to create custom views
- Modified schemas using **Flask-RESTPlus** to shrink payload size and quicken server response time
- Added unit tests for individual components, and integration tests for larger workflows, to ensure logic correctness

TECHNICAL PROJECTS

Handwriting Recognition   September 2018 – December 2018

- Adapted an **HTML** canvas library to export, convert, and resize user drawn images to submit to the backend
- Built a **Flask RESTful API** that returns predictions from a trained Keras model, and a mobile friendly **React** UI

Personal Site   January 2017

- Remodeled Windows 98 for a web browser with **jQuery**, **CSS**, and my own window objects
- Implemented dynamic **DOM** manipulation to visually and functionally mimic the operating system