Jaime Abbariao

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Experience

- **E*TRADE** — Jersey City, NJ
  Software Engineer — *Jul. 2019 - Present*
  - **React Error-handling Framework**: Created an internal generic error handling framework in MobX (chosen as company-wide UI state management framework) that has an opinionated handling of UI error states, reducing technical debt and enforcing consistency when developers have to implement error states across components
  - **Back-end Vendor Integration**: Led the integration of MSCI's RiskGrade Engine into existing Spring REST Service for Portfolio Analysis which provided a new suite of advanced statistics for portfolio management and analysis in Java
  - **Performance Optimizations**: Reduced average time to populate data for the Portfolio Analysis page by implementing Caffeine caches in front of the service calls and constructing scheduled queues to compute statistics that do not depend on real-time data
- **E*TRADE** — Jersey City, NJ
  Software Engineering Intern — *Jun. 2018 - Aug. 2018*
  - **React Component Library**: Designed and implemented a generic FileUpload component capable of multi-file and drag-and-drop uploads for E*TRADE's internal React component library
  - **Portfolio History Metrics**: Proposed and implemented a transition from a HashMap to a TreeMap of the underlying data structure of a portfolio history metrics querying service, improving memory limitations and allowing for custom sorting through comparators
  - **Apache Solr**: Presented a demo of the integration of Apache Solr into the Portfolio Analysis application to enhance its search capabilities for financial institutions; resulted in adoption of Solr instance within E*TRADE which indexes financial institution data into the application
- **BNP Asset Management** — New York, NY
  Software Engineering Intern — *Jun. 2017 - Aug. 2017*
  - **Research**: Conducted quantitative economic research and analysis on various fixed income securities to identify trends and investment opportunities
  - **Market Health Indicator**: Created a market health indicator based on in-house macroeconomic models. Built with Vue and D3 on the front-end and a Django REST API, providing several endpoints for CRUD operations

Education

- **New York University** — New York, NY
  Master of Science in Computer Science; GPA: 3.9 — *Jan. 2018 – Jan. 2020*
  - **Coursework Emphasis**: Data Science
- **Baruch College** — New York, NY
  Bachelor of Arts in Mathematics; GPA: 3.94 — *Jan. 2014 – Jul. 2017*

Activities

- **Women in Tech**: Actively participated in the organization of E*TRADE's Women in Tech events such as *Article Club* and an internal hackathon
- **Algorithms**: Founded an internal community of more than 50 engineers at E*TRADE for solving algorithm problems where we shared 10 problems a week as well as solutions in various programming languages

Programming Skills

- **Languages**: Python, TypeScript, JavaScript, Java, Rust, Go
- **Databases**: PostgreSQL, MySQL, MongoDB
- **Frameworks & Libraries**: Spring, React, Flask, FastAPI, Express, Pandas, NumPy
- **Machine Learning & Deep Learning**: Keras, PyTorch, Scikit-Learn, XGBoost
- **Other Technologies**: Git, Docker, Kubernetes, Google Cloud Platform, Redis, RabbitMQ, Apache Spark