Raayan Pillai

Contact Information

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Professional Experience

Goldman Sachs, New York, NY

Technology Analyst **Jul 2018 – present**

Engineer for the Investment Banking Division. Notable projects include:

- Architected and deployed a micro-service that consolidated the debt and equity capital market teams' external settlement process. This eliminated the need to maintain separate codebases and unified the pipeline to downstream systems. *(Java, [JMS], Spring, Hibernate)*
- Worked with a group of peer firms to enable direct communication between banks and investors. Established the common interface that must be adhered to by all connected parties. Implemented and deployed the FIX client that enabled our participation in the consortium. *(Java, FIX, QuickFIX)*
- Spearheaded the uplift of our testing methodology for, SyndicateLink, our main deal execution platform. Improved developer accountability by integrating end-to-end tests into our build pipeline. Overhauled the test development process by providing a framework for devs to more accurately simulate business workflows. *(Selenium, Jenkins, Maven)*
- Increased operational efficiency for managing our micro-service architecture. On boarded production engineering team by handing off required maintenance protocols. Reduced platform downtime by optimizing service reboot sequence. *(DevOps, Micro-Services)*

Summer Technology Analyst **May 2017 – Aug 2017**

Replaced a monthly private wealth management performance report, requiring 4-5 hours of manual calculation, with a live dashboard. Achieved by integrating lending (mortgage and loan) data and relevant key-performance-indicators into web dashboards. Deployed processes to flatten and join from multiple data sources in the firm's proprietary language. *(SQL, Process Management)*

FINRA, Rockville, MD

Technology Intern **May 2016 – Aug 2016**

Implemented fuzzy string matching algorithms to reduce errors by giving context to data ingested from physical mediums. (OCR Systems) Deployed a web-service using this system, and geocoding APIS, that enabled employees to correct their bespoke data. *(Python, REST)*

Independent Projects

lockbook, New York, NY

Secure, Version-Controlled Journalling **June 2019 – present**

A security-first, cross-platform, markdown-friendly journalling application. Lockbook employs industry-standard encryption (transparently implemented in our open-source codebase) to secure users data before committing to the git repository of their choosing. *(Scala, Swift, Git, Cryptography)*

redcloud, Rochester, NY

Inter-Exchange Arbitrage Engine **Feb 2017 – May 2018**

Implemented an arbitrage trading bot which analyzed real time market data from various cryptocurrency exchanges to find arbitrage opportunities between them. Maintained network statistics and a local order-book to reduce risk related to exchange stability. *(Java, C++, WebSockets)*

overseer

Hour Management and Synthesis **Jan 2017 – present**

Platform for collecting, manipulating, and deriving useful analytics from focused, hourly recordings. Encourages mindfulness by employing various data-science libraries to predict future behavior and recognize patterns. *(Python, Machine-Learning)*

Education

University of Rochester, Rochester, NY

B.S., Computer Science **Sep 2014 – May 2018**

Tools

Proficiency: Java, Python, Swift
Familiarity: [Scala], C++, CUDA
Technologies: Spring, Hibernate, [JMS], FIX, UNIX, SQL, MongoDB