

# Christopher Cichielo

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## EXPERIENCE

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### T. Rowe Price

Jan. 2022 – Present

#### *Software Engineer, Investment Risk*

Baltimore, MD

- Created new ETL service to interact with MSCI (3rd party vendor) to drastically increase ease of use and response times for users. Handles hundreds of thousands of rows of data that must be served to portfolio managers prior to market open. Data can be queued for regeneration with one click in < 1 minute; previously a single report rerun could take several hours.
  - \* Designed and developed NoSQL DynamoDB service to easily configure and transform legacy data pipeline output (i.e. Excel) to be ingested and easily accessible via REST API
- Updated existing investment risk user interface to show thousands of jobs and audits per day through the new ETL pipeline. Additionally allows for failed jobs to be easily viewed and edited/re-queued for processing to reduce downtime of missing data.
- Created reporting service to monitor and maintain critical investment compliance in accordance with various T. Rowe Price, and SEC guidelines. Reports are served every day to investment risk users.
- Updated various legacy projects to modern data sources (AWS DynamoDb / Aurora / RDS). Conversions provided more relevant data, faster response times.
- Created a new tool for investment users to monitor all of T. Rowe Prices assets under allocation in real time, allowing portfolio managers to monitor and maintain trade restriction compliance.
  - \* Designed and implemented a feature to snapshot allocation data that is used for portfolio managers to monitor allocation usage across entities (TRP.A / TRP. IM). The 'snapshot' data allows portfolio managers to shift allocation restrictions based on prior usage.

### etherFAX

May 2019 – Dec. 2021

#### *Software Engineer*

Holmdel, NJ

- Implemented a service to extract fax data through optical character recognition (Microsoft Form Recognizer) and key/value pair AI models, capable of handling over 10,000 fax documents per day.
- Developed app for mobile devices to send, receive, and manage faxes through etherFAX network. App was developed for both Android and iOS using Xamarin.
- Created testing suite for 100% code coverage on client and development web pages using Selenium (C#).
- Replicated functionality of USD payment processor to handle non-USD transactions.

## EDUCATION

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### University of Maryland

Aug. 2015 – May 2020

#### *Bachelor of Science in Computer Science*

College Park, MD

- **Coursework:** Data Structures, Algorithms, Databases, Computer Systems, Machine Learning
- **Awards:** President's Transfer Scholarship, Dean's List

## SKILLS

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**Languages :** C#, C, Specflow, Python, Java, JavaScript, SQL, LaTeX, HTML/CSS, React

**Tools :** Azure, AWS, Jira/Rally, GitHub, Docker, Unity, Selenium