

# James FitzGerald

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## WORK EXPERIENCE

### Siemens Healthineers

Malvern, PA

*Data Scientist*

11/21-Present

- Automating multi-billion-dollar daily revenue forecast, saving the analytics team hours of manual calculations
- Creating Oracle data loading process, cutting run-time down 4800% from the manual inserts
- Building 27 Snowflake views mapped from Oracle databases, allowing for instantaneous querying for data
- Leading Python teaching initiative for the North America Analytics team

### SEI Investments

Oaks, PA

*Software Developer*

6/21-11/21

- Generated metadata and unit tested API calls to .NET web application to improve code viability for other developers
- Resolved Veracode security flaws to protect .NET application and to verify incoming data properties
- Established C# cross-site forgery verification to mitigate attacks on an enterprise application
- Developed blockchain ledger solution to CTO (now CEO) with estimated cost savings of 10-20 million/year

### Agilent Technologies

Little Falls, DE

*Data Analytics Intern*

12/19-2/21

- Spearheaded the Field Service Engineer Qlik Dashboard, resulting in millions of dollars accruing from 900+ engineers' efforts
- Created an Onboarding Analytics dashboard contributing \$5.5 million to monitor field service engineers' efficiency and services impact for marketing and upper-level managers
- Reverse-engineered a legacy dashboard of quality issues into Qlik Sense to improve interpretability for the global Data Quality Team and increasing revenues by the millions

### SEI Investments

Oaks, PA

*Software Engineering Intern*

6/19-12/19

- Designed FTP retrieval through Python-based Selenium, saving an upper-level manager 30 minutes per data retrieval
- Created an analytics dashboard for the database log which identified underperforming processes for managers
- Automated regression testing on client-facing application resulting in 30+ significant changes on the website

### GeoBlue

King of Prussia, PA

*Underwriting Intern*

1/17-5/19

- Analyzed a high volume of claims valued at over \$200 million, which reduced two employee's workloads
- Audited more than 1,500 claims in preparation for external audit, restructured filing system (over 5,000 folders) in VBA for increased efficiency in underwriting documentation
- Developed a program in C++ to analyze and identify the distance between providers and the insured internationally, resulting in strategic provider recruitment opportunities presented to C-Suite leaders

## EDUCATION

### Rowan University

Glassboro, NJ

Bachelor of Science in Finance, **GPA: 3.9/4.0**

**Honors:** Beta Gamma Sigma (Top 10%), Dean's List

**Research:** "Market Trend Trading with Classification Models"

**Technical Skills:** Proficient in: Apache Airflow, Apache PySpark, Alteryx, AWS, Bash, C++, C#, Docker, ETL, Git, GitHub, Hadoop, HTML, Java, JavaScript, JMP, Linux, Oracle, Python (dbt, NumPy, Pandas, Scikit-learn, TensorFlow, Keras), Putty, QlikSense, R, Rest APIs, Rust, Regex, SAP CRM/ERP, SDLC, Solidity, SQL/MySQL, TeamCity, Test Automation, Tibco Spotfire, Visual Studio, VBA, WinSCP, .NET Core

**Business Acumen:** Algorithmic Trading, Agile Workflow, Blockchain Development, CI/CD, Cryptocurrency Mining, Data Preprocessing and Visualization, Geospatial Analysis, Scrum, Version Control