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# **EDUCATION**

# • Temple University

Philadelphia, PA

B.A. in Actuarial Science with minor in Computer Science; Summa Cum Laude

Aug 2015 - May 2019

## EXPERIENCE

• SimpliSafe Boston, MA

Data Engineer Nov 2021 - Present

- Helped design and implement a DBT-like DSL for ETL pipelines used by 30 analysts; supports 20+ sources (Kafka, Google Analytics, MySQL), various transformations (DuckDB, Pandas, Python), and several sinks (S3, Athena, sFTP).
- Guided finance team in designing, implementing, and testing ETL pipelines which sync business-critical subscription data from Zuora to our datalake as Apache Iceberg tables, serving as a key data source for hundreds of downstream financial reports related to subscriptions and subscriber insights.
- Supported transition from legacy data platform to Dagster, an open source data orchestrator which now runs over 1100 pipelines. Helped write the CDK stack for deploying Dagster to EKS, moved legacy pipelines to Dagster, and created a GraphQL client for programatically interacting with Dagster's frontend
- $\circ$  Sped up CI/CD pipelines up to 73% by moving action runner infrastructure to EKS, refactoring slow unit and integration tests, and rewriting workflows to run actions in parallel

#### • John Hancock Life Insurance

Boston, MA

Actuarial Associate

May 2019 - Nov 2021

- Worked with reserving team and state regulators to implement an annuity valuation model. Leveraged Python's AST module to write a transpiler to convert the model specification to Excel, saving weeks of manual translation and improving model readability for regulators
- Wrote VBA scripts to automate different reports used in the quarterly annuity valuation process, cutting 10 hours from the quarterly reporting process
- Prepared quarterly capital and remittance forecasts and presented results to senior management

### • John Hancock Life Insurance

Boston, MA

Actuarial Intern

May 2018 - Aug 2018

- Utilized specialized actuarial software to run life insurance sensitivities for a new Universal Life product
- $\circ\,$  Reviewed financial calculations and VBA code for a new guaranteed issue final expense product
- Assisted pricing team in moving a model from Excel to Python by building a script to load initial rates from a file into Numpy

#### ACCOMPLISHMENTS

- Certified Kubernetes Administrator (2023)
- AWS Certified Cloud Practitioner Exam (2022)
- Associate of the Society of Actuaries (2021): Passed 8 exams encompassing data analytics, financial mathematics, probability and statistics

### PROJECTS

- go-llm: Wrote a Go-based command line tool for querying LLMs, with options for image input, structured output, etc.
- markov: Wrote a Python program which generates GIFs of markov chains via graphviz

## TECHNICAL SKILLS

- Languages: Python, SQL, Bash, Go
- Technologies: AWS (Athena, S3, Lambda, ECS, EKS, CDK), Dagster, Docker, Kubernetes, Github Actions
- Tools: git, neovim, tmux, ssh, yq/jq, mitmproxy, socat