

## EDUCATION

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- **Temple University**

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

Philadelphia, PA

*Aug. 2015 – May. 2019*

## EXPERIENCE

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- **SimpliSafe**

*Data Engineer*

Boston, MA

*Nov 2021 - Present*

- Expand and improve data platform which serves hundreds of terabytes of data to dozens of teams across the company
- Manage an AWS EKS Dagster deployment designed to run 300+ data pipelines in a reliable and scalable way
- Assisted in move to Apache Kafka by writing a parser for converting google protocol buffer definitions to parquet schemas

- **John Hancock Life Insurance**

*Actuarial Associate*

Boston, MA

*May 2019 - Nov 2021*

- Wrote a python script for allocating \$3 billion in aggregate variable annuity reserves to seriatim policies and validated results with unit tests
- Wrote a transpiler for translating code written in a domain specific business language to valid excel formulas, saving hundreds of hours of manual translation
- Prepared quarterly capital and remittance forecasts and communicated results to senior management

- **John Hancock Life Insurance**

*Actuarial Intern*

Boston, MA

*May 2018 - Aug 2018*

- Utilized specialized actuarial software to run life insurance sensitivities for a new Universal Life product
- 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

## PROJECTS

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- **PDP-11 Emulator:** Emulator and assembler for a large portion of the original PDP 11 instruction set
- **Markov Chain Visualizer:** Python program which generates GIFs of markov chains for teaching purposes

## PROGRAMMING SKILLS

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• **Languages:** Python, SQL, Bash

**Technologies:** AWS, CDK, Dagster, Docker, Kubernetes