

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
 - 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** Boston, MA
Actuarial Associate 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** Boston, MA
Actuarial Intern 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

- **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