

EDUCATION

Dartmouth College

Bachelor of Arts in Biology, Computer Science with Honors; 3.75 GPA

Hanover, NH

Sept. 2012 - Jun 2016

EXPERIENCE

Amazon Web Services (AWS)

Senior Software Development Engineer (Health AI)

Seattle, WA

Apr. 2021 - Present

- **Service Lead:** Leading implementation of a new AWS managed service that utilizes a scalable microservice architecture to support genomics workflows in the cloud.
- **Cloud Architecture:** Worked closely with product stakeholders to architect a cloud infrastructure capable of scaling to handle petabytes of genomic data.
- **Amazon Genomics CLI:** Designed and built an open source CLI tooling to simplify the processes of deploying the AWS infrastructure required to run genomics workflows in the cloud, to submit those workflows to run, and to monitor the logs and outputs of those workflows.
- **Operational Excellence:** Implemented continuous integration and delivery tooling as infrastructure as code to automate build, test, release, and monitor processes.

Amazon

Software Development Engineer (Prime)

Seattle, WA

July 2019 - Apr. 2021

- **Membership Journeys:** Developed a scalable, low latency, rule-based customization engine to display accurate and relevant content to customers across various use cases.
- **Prime MFA:** Enabled customers to quickly and seamlessly authenticate with their bank when signing up for subscription services in compliance with GDPR privacy laws.
- **Cloud Infrastructure:** Wrote and launched well-architected services using infrastructure as code for AWS, complete with metrics, alarms, and monitoring dashboards.

Epic Systems

Software Developer

Verona, WI

Aug. 2016 - May 2019

- **Tapestry:** Worked closely with integrated payer provider networks to develop accurate and comprehensive cost estimate tooling for prospective patients by aggregating and anonymizing claims data.
- **OpTime:** Developed clinically integrated applications aimed at improving nurse and physician efficiency in readying patients for surgery.

Evolutionary Computational Genomics Lab

James O. Freedman Presidential Scholar

Hanover, NH

Jan. 2015 - June 2016

- **GTA Hunter:** Worked with large genomic datasets while studying Gene Transfer Agents (GTA) to develop a machine learning-based system to identify GTAs using support-vector machines.