

Sriram Iyer

ramiye1998@gmail.com • King of Prussia, Pennsylvania • [Github](#)

WORK EXPERIENCE

Cerner Corporation

Software Engineer I

June 2020–Present

Malvern, Pennsylvania

- Rewrote a Java module converting data from Cerner's standard specification to the FHIR specification to reduce unnecessary overhead during execution resulting in an average wall-clock time improvement of 20%
- Implemented required functionality for Cerner's Clinical Quality Language (CQL) compiler using Clojure to qualify for HEDIS MY2020 certification
- Developed the architecture for a project monitoring the CQL compiler's performance using AWS and Go, leveraging CloudFormation, API Gateway, RDS, Lambda, SNS and SQS in particular
- Automated 6 hours' worth of work for the data validation process for HEDIS MY2020 certification using AWS EMR, Apache Spark and Python
- Onboarded and trained 4 new software engineers on the team on Java, Python and documentation best practices within the organization

Cerner Corporation

Software Intern

May 2019–August 2019

Malvern, Pennsylvania

- Converted the client-hosted back end system of the OPENLink integration engine from using WebSockets to REST, yielding an average performance improvement of 80% in response times
- Expanded test coverage for OPENLink's front end system by 30% using Selenium
- Built a Docker container for the engine driving OPENLink, allowing it to be deployed through Kubernetes

AI Health Insights

Data Engineer

March 2020–Present

Remote

- Crafted a dataset used to train models for products in development with entities collected utilizing Amazon Medical Comprehend from textual data extracted from over 150 articles written by the New England Journal of Medicine (NEJM) and 4 medical textbooks using Python with BeautifulSoup, Requests and Pandas
- Leveraged statistical algorithms and applied filtering and grouping techniques on 2 years' worth of patient data from a 13-center urgent care company to establish variability in tests, diagnoses, coding and time taken amongst the physicians for diagnosing the same disease for similar patients

Internet Philosophy Ontology (InPhO) Project

Undergraduate Programmer

March 2018–December 2019

Pittsburgh, Pennsylvania

- Implemented features and squashed bugs using JavaScript, HTML/CSS and Python to make the Topic Explorer application more user-friendly and comprehensible to the user
- Created a dataset comprised of letters written by Thomas Jefferson to be used in academic research by scraping hundreds of XML documents from the website of the Library of Congress and extracting the relevant text using Python with BeautifulSoup and Requests

EDUCATION

University of Pittsburgh

BS in Computer Science, Minor in Japanese

2016–2020

Pittsburgh, Pennsylvania

- Graduated Summa Cum Laude (GPA: 3.77)

TECHNOLOGIES AND LANGUAGES

- Languages: Java, Python, JavaScript, Clojure, Go
- Technologies: AWS, Apache Spark, Git, Bash, Docker