

# HELEN SEE

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## WORK EXPERIENCE

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### ViacomCBS

#### Software Engineer

**October 2018 - Present**

- Based on A/B testing that focused on web and mobile apps of one brand, using our recommendations have increased user engagement by 20%
- Built python data pipeline to collect wikidata from Wikidata Query Service, using SPARQL, to showcase third party content with our recommendations
- Lead, built and designed Flask and React web app to showcase recommendations of brand content and external content to encourage and convince user facing apps to integrate with our API
- Stored internal and wikidata content in ElasticSearch for fast content searches and to use our recommendation feature vectors with ElasticSearch's k-Nearest Neighbor search
- Lead, built and designed ingestor service for brand content, using Java, Spring Boot and PostgreSQL, for internal services and recommendations
- Built and designed user profiles and history data, using Java, Spring Boot and PostgreSQL, for brand teams
- Used gRPC, a remote procedural protocol Java framework, and Java Spring Boot framework for REST calls to communicate between services
- Designed and setup Amazon Web Service technology stack for containerized services with cloudformation
- Created and ran jobs on Jenkins to build Java jars or Python wheels to be stored in S3 then dockerized and released to ECS

#### Associate Software Engineer

**October 2016 - October 2018**

- Built and maintained Java and Golang services to create, update, modify, merge, or delete data
- Dockerized services with containers in Amazon ECS, for images stored in ECR, and for local testing
- Used HTTP/1.1 and AWS Loadbalancer to communicate between services
- Provided Viacom brand content in MySQL database to 8 third party media groups, which allows users to be redirected from third party apps to internal apps to increase traffic
- Created and ran jobs on Bamboo
- Provided errors, exceptions, and HTTP response status codes in alerts and high level overviews through SumoLogic

### UAA/SA Information Technology Services

#### Software Developer

**June 2014 – May 2016**

- Developed multi-page web applications with back-end using C# and SQL for over 20 Rutgers departments
- Created web forms using C# and ASP.NET web controls, which allowed required and validated inputs
- Implemented SQL scripts for applications to organize and provide information for the Rutgers departments

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#### Software Developer

**May 2015 – Aug. 2015**

- Implemented Selenium and JUnit for automated testing of existing web applications in a production environment
- Developed automated testing programs with Java, Selenium webdriver, and JUnit for a web application that has been placed in production

## TECHNICAL SKILLS

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**Languages:** Java, Python, C#, GoLang, C, HTML, CSS, JavaScript

**Amazon Web Service:** ElasticSearch (with Open Distro), Elastic Container Service, Cloudformation, Cloudwatch, Lambda, Loadbalancer, S3

**Database:** PostgreSQL, MySQL, SQL, GraphDB using SPARQL

**Applications:** Kibana, IntelliJ, Pycharm, NetBeans, Microsoft Visual Studio Code, Unity

**Operating Systems:** Windows, Mac OSX, Unix/Linux

**Frameworks:** Spring Boot, Bootstrap, Selenium, ASP.NET, Flask, Node.js, React.js

**Build Pipeline:** Atlassian Bamboo, Jenkins

## EDUCATION

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**Rutgers University, New Brunswick, NJ**

**May 2016**

*Bachelor of Science in Computer Science*