

Aashwin Ranjan

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WORK EXPERIENCE

UnitedHealth Group Optum

Feb. 2022 – Present

Software Engineer

Basking Ridge, NJ

- Developed and tested for enterprise level software in a fast-paced **Agile** development environment.
- Direct contributions in migrating **COBOL** based mainframe services to **Multithreaded Java Spring Boot services** in the cloud resulted in savings of **US\$ 980,000** in the first quarter after release.
- Developed microservices using **Java Spring Boot, NodeJS**.
- Administered and deployed applications into **Kubernetes** namespaces supported by **Google Cloud**.
- Utilized **Apache Kafka** and **REST** to create microservice flows that seamlessly process and deliver data in real time.
- Worked with **MySQL** and **IBM DB2** database technologies.
- Worked on **ReactJS** based frontend services.
- Wrote tests using **JUnit, Mockito** and **Cucumber** frameworks, as well as build and test scripts for **Maven**.
- Wrote **Python** scripts for data clean up and management.

Experian Consumer Services

Jul. 2021 – Jan. 2022

Software Engineer

Costa Mesa, CA

- Made major contributions to onboarding and migrating services from a newly acquired insurance partner.
- Developed microservices in a **Test Driven** manner using **Java Spring Boot** and **NodeJS** interacting through a combination of **REST** and the **AWS Kinesis** message broker.
- Coded and deployed **Python** and **Java** based **AWS Lambdas** to facilitate data population of sensitive banking partner data in **AWS DynamoDB** tables, **S3** buckets and **MongoDB** databases.
- Wrote tests using **JUnit** and **Mockito** frameworks, as well as build and test scripts for **Gradle**.
- Worked on **Angular** based frontend updates in **Typescript**.

NASA Psyche Mission at ASU

Aug. 2020 – Jun. 2021

Software Engineer

Tempe, AZ

- Designed and coded a full-stack database mining, querying and cataloging tool for the involved scientists.
- Coded a **ReactJS** frontend and a **NodeJS** and **Express** backend that communicates with a **PostgreSQL** database.
- Used **NginX** to implement a **Reverse Proxy** and **Load Balancer**.
- All components were containerized to comprise a lightweight container network using **Docker**.
- Utilized **Python, PyTorch, NLTK** and various other **NLP** libraries to build a model that extracts tabular data from research papers.
- As a result of my contribution, I was invited to, and attended the Psyche Mission Launch on October 13th 2023.

SKILLS

- **Languages:** Java, Javascript, Typescript, Python, SQL.
- **Web:** Spring, NodeJS, ReactJS, Angular, Amazon Web Services, Google Cloud, Docker, Kubernetes.
- **Database:** MongoDB, PostgreSQL, MySQL, DB2, DynamoDB.

EDUCATION

Arizona State University

BS, Computer Science

May, 2020

Tempe, AZ