

# Allyson English

## senior software engineer

Experienced architect of scalable systems  
Focused on building accessible digital experiences

**Senior Software Engineer @ DIMO** April 2023- present

**Software Engineer** April 2022- April 2023

- Design and implement distributed, high throughput data-heavy services as founding engineering team member, supporting scalability and rapid growth
- Develop and maintain REST and gRPC APIs, leveraging geospatial and time-series databases with PostgreSQL and NoSQL databases (ElasticSearch), including implementing query federation and caching mechanisms
- Architect real-time streaming solutions using Kafka, processing data from over 150,000 connected vehicles to power event-driven micro-service architecture
- Lead technical collaborations across engineering, product management, and leadership teams to shape product and technical roadmaps, driving impactful infrastructure improvements
- Build and maintain tools to enable seamless developer experience, including SDKs in TypeScript, Python, and GoLang and simulator for local development
- Monitor deployments and conduct real-time debugging, maintaining service reliability and data quality

**Data Engineering Lead @ Bluelabs Analytics** Nov 2021- April 2022

**Data Engineer** Sept 2020- Nov 2021

- Defined and executed scalable, long-term infrastructure strategy for Healthcare.gov and critical CMS services, focusing on system resilience and data accessibility
- Spearheaded NLP and topic modeling initiatives for CMS, analyzing Helpdesk communications to extract actionable insights
- Developed self-service applications to empower clients in managing and troubleshooting data pipelines
- Automated data management processes to enforce best practices and optimize design principles, improving data governance and operational efficiency
- Enhanced pipeline performance by redesigning ETL processes, reducing costs, and expediting data landing times by migrating from legacy infrastructure

**Data Scientist @ Results for Development (R4D)** May 2019- Sept 2020

**Senior Data Analyst** January 2018- May 2019

**Data Analyst** January 2017- January 2018

- Led team of analysts in conducting quantitative analysis of primary health care data, delivering insights to improve healthcare decision making
- Gathered, cleaned and analyzed field data; created automated health analytics tools to inform budgeting within Tanzanian Ministry of Health

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## Skills

### Programming Languages

GoLang (Go), Python, Typescript, Solidity, SQL, Ruby, SAS, R

### Libraries & Frameworks

React Native, REST, gRPC, GraphQL, NLP (NLTK)

### Tools & Platforms

Kafka, ElasticSearch, NoSQL, Kubernetes, PostgreSQL, Redis, AWS, Grafana, Snowflake, Airflow

## Selected Projects

### Zeit

NLP project analyzing user notes to create a mind map of the local zeitgeist

### ZeroDays

Resource for anti gun violence outreach, including a tracker of daily incidents of gun violence across the United States

### Programmable Rewards

*Blockchain Hackathon Winner*  
Web3 application that allows companies to incentivize users through on-chain rewards and efficiently distribute earnings to users

## Education

**Boston University** BS · MSc

## Interests

Web Accessibility  
Chess  
Science Fiction  
Running