

# Terence Tuhinanshu

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## Summary

Senior full-stack software engineer with 12+ years of experience working in open source, cloud-native, geospatial web apps with a focus on environmental impact.

## Experience

### 2023 Senior Software Engineer, Element 84

- Mentored engineers, ran fortnightly Community of Practice meetings, worked with leadership to develop standardized engineering practices
- Gathered requirements, wrote proposals, devised architectures, estimated tasks, prepared Architecture Decision Records, did project retrospectives

### 2022 Senior Software Engineer, Azavea

- Led a team of engineers working across a number of projects, established standardized engineering practices, ran internal talks, spoke at conferences
- Developed full-stack high performance cloud-native geospatial web apps with a focus on hydrology, stormwater, and environmental impact

### 2015 Software Engineer, Azavea

- Developed front-ends in React, Redux, Backbone
- Developed back-ends in Django, Akka, ASP.NET
- Wrote infrastructure code in Ansible, Terraform
- Setup CI in Jenkins, Travis CI, GitHub Actions

### 2011 Release Manager, Performance Systems

#### Development

- Worked with engineers, designers, project managers, QA testers, leadership, and clients to configure and manage more than a dozen instances of core product

## Education

### 2011 MS in Software Engineering, Drexel University

- Specialization in User Interfaces and Artificial Intelligence

### 2009 Bachelors of Computer Application, Devi Ahilya University

- Honors degree

## Skills

### Languages & Platforms

JavaScript, Python, C#, Scala, React / Redux, Backbone, Shell, Terraform, Django, Akka, ASP.NET, SQL, jQuery, PHP, AWS, Git, Docker, Jenkins, GitHub Actions

### Geospatial

GDAL, QGIS, GeoTrellis, PostGIS, Leaflet, MapboxGL, Dask, Zarr, Kerchunk

### Development

Full-stack web development, REST APIs, static, VM, container, and Lambda based deployments on AWS

Data modeling, normalization, data migrations, query optimization

Estimation, architecture, diagramming, decision recording and documentation

Build and release pipelining, infrastructure as code, upgrade planning and execution

Geospatial data ingest, access, tiling, high performance access, map algebra

### Design

Photoshop, Illustrator, InDesign, Affinity

Responsive web design, typography, web fonts, print design and publishing

## Certifications

2023 AWS Solutions Architect - Associate

2019 Triplebyte Certified Generalist

2012 Functional Programming in Scala

