

Rising Odegua

Seasoned full-stack product and research engineer building frontier world-model platforms, developer APIs, demos, and agent-ready product surfaces.

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SUMMARY

Full-stack product and research engineer with experience shipping AI products from prototype to production. Current work at spAltial turns frontier world models into usable products: app.spaltial.ai, the developer API, model-serving infrastructure, eval tooling, demos, and agent-ready integrations for LLM skills, MCPs, and Claude plugins.

Previously shipped B2B and B2C SaaS products across digital twins, ESG data platforms, social-service search, open data portals, and applied machine learning. Co-creator of Danfo.js, a 5k+ star JavaScript data library featured by the TensorFlow team, and co-author of the Packt book Building Data-Driven Applications with Danfo.js.

CORE STRENGTHS

- Product engineering for AI labs and research-driven teams
- Developer APIs and programmatic access for model platforms
- Agent-ready integrations, LLM skills, MCPs, and Claude plugins
- Model serving, inference infrastructure, and deployment workflows
- Eval tooling, A/B testing, and human-evaluation workflows
- Large-scale data sourcing, scraping, and training-data pipelines
- Real-time 3D in the browser with 3D Gaussian Splatting, PlayCanvas, Rapier, and WebGPU-adjacent workflows
- Full-stack TypeScript, React, Next.js, Node.js, NestJS, FastAPI, and Python
- Cloud infrastructure on GCP and AWS with Docker, Kubernetes, and Terraform
- Open-source engineering, technical writing, and developer education

EDUCATION

Bachelor of Science (BSc), Computer Science

Ambrose Alli University | BSc, Computer Science | 2019

- Studied computer science with a focus on software engineering, data structures, algorithms, databases, and applied machine learning.
- Built the software + data science foundation behind later open-source, ML, and product engineering work.

RECOGNITION

- GitHub Star: <https://stars.github.com/profiles/risenw/>
- Google Developer Expert in Machine Learning: <https://developers.google.com/community/experts/directory/profile/profile-rising-odegua>
- Winner, 2018 Access Bank DataHack
- Winner, 2019 DSN Mr Algorithm Award
- Retina-AI Best Poster Award

EXPERIENCE

Member of Technical Staff, Product Engineering

spAltial | London, United Kingdom | January 2026 - Present

- Building spAltial's frontier world-model platform across app.spaitial.ai, the developer API, agent-ready integrations, demos, eval tooling, and customer-facing product work.
- Launched the product and API from scratch on scalable infrastructure, including programmatic access, LLM skills, MCPs, Claude plugins, and deployment paths for inference endpoints.
- Helped build large-scale data sourcing, scraping, and training-data pipelines for model training.
- Built eval tooling, launch campaigns, and product/partnership loops with users and partners.

Senior Full Stack Software Engineer

Kallikor | London, United Kingdom | October 2024 - December 2025

- Built AI-powered simulation products for turning real-world operations into digital twins.
- Helped enterprise teams test decisions in software before changing physical systems.
- Worked across frontend product surfaces, backend systems, and AI-enabled simulation workflows.

Senior Full Stack Software Engineer

Nossa Data | London, United Kingdom | April 2022 - October 2024

- Early engineering hire who helped take Nossa Data's ESG reporting and data-management platform from MVP to production.
- Shaped product architecture, data workflows, and core customer-facing features.
- Built software for data collection, reporting, collaboration, and compliance-heavy workflows.

Engineering Lead

PhilanthroLab | Remote, United States | May 2021 - March 2022

- Led development of the Social Safety Net, a search engine for social services.
- Built around a machine-learning-ready knowledge graph for matching people in need with relevant resources.
- Worked across product architecture, search, data modeling, and engineering execution.

Software Engineer

Datopian | Remote, United States | September 2020 - February 2022

- Core contributor to PortalJS, an open-source framework for building rich data portals.
- Extended the framework and improved backend integrations, including CKAN.
- Helped teams publish more usable data products.

Machine Learning Engineer

Data Science Nigeria | Nigeria | January 2020 - July 2020

- Worked on applied machine-learning and analytics projects across the full data loop.
- Covered data collection, exploration, transformation, modeling, evaluation, and business-facing insight.

SELECTED PROJECTS

segment-3gs

GitHub: <https://github.com/risenW/segment-3gs>

Browser-based 3D Gaussian Splatting segmentation playground powered by spAltial worlds. Enables selecting and isolating objects inside reconstructed 3D scenes rendered in real time in the browser.

Tech: TypeScript, 3D Gaussian Splatting, PlayCanvas, real-time 3D

bot-in-world

GitHub: <https://github.com/risenW/bot-in-world>

Browser-based demo where a humanoid bot learns to navigate and fetch inside worlds generated by the SpAltial API. Reinforcement learning runs client-side in a web worker with PlayCanvas rendering, Rapier physics, generated splats, collision meshes, and pretrained policies.

Tech: TypeScript, PlayCanvas, Rapier, reinforcement learning, SpAltial API

Amazing Calendar

Writeup:

<https://www.linkedin.com/pulse/building-intelligent-calendar-assistant-rising-odegua-upoof/>

AI-powered calendar assistant for chatting with Google, Apple, and Outlook calendars through natural language. Includes multi-source sync, semantic search, calendar operations, and an agent-based processing pipeline.

Tech: React Native, Supabase, OpenAI, vector search, calendar APIs

Danfo.js

GitHub: <https://github.com/javascriptdata/danfojs>

Co-created Danfo.js, an open-source pandas-like data library for JavaScript with 5k+ GitHub stars. Featured by the TensorFlow team.

Tech: TypeScript, JavaScript, data analysis, machine learning

Building Data-Driven Applications with Danfo.js

Book:

<https://www.packtpub.com/en-us/product/building-data-driven-applications-with-danfojs-9781801070850>

Co-authored the Packt book on building browser and Node.js data applications with Danfo.js, covering data analysis, visualization, machine-learning workflows, and production JavaScript data tooling.

PortalJS

GitHub: <https://github.com/datopian/portaljs>

Core contributor to PortalJS, an open-source framework for building feature-rich data portals with modern frontend tooling and CKAN-compatible backends.

Tech: TypeScript, React, data portals, open data

Datasist

GitHub: <https://github.com/risenW/datasist>

Python library for easy data analysis, visualization, exploration, and modeling.

Tech: Python, data science, Jupyter

RESEARCH

Google Scholar: https://scholar.google.com/citations?hl=en&user=_kQwNIMAAAAJ