

# Anderson Addo

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TypeScript, Python, Java, C#, C++; React Native, React, Firebase, PostgreSQL, GCP, AWS, TensorFlow, Unity

## Work Experience

### Uncountable > Fullstack Software Engineer > (August 2023 – present)

- [React (TypeScript); Python; PostgreSQL] Working in a small, fast engineering team building a high throughput data management platform for the world's largest R&D organizations. Also managed and guided interns.
- **Improved flagship feature** to dynamically query, join, filter, sort and paginate data of arbitrary locations, formats and rendering types to generate **Airtable-like spreadsheets, forms and dropdowns**; Company's US expert for feature.
  - Enhanced LLMs that apply filters to these spreadsheets and **wrote initial infrastructure for LLM unit tests**.
  - Created new mobile UI for these dynamic spreadsheets to support company's growing mobile priority and **secure new 400+ user enterprise deal**.
  - Standardized backend for loading data across different tables that have different semantics.
- Implemented comment threads feature, then **led team of 3** to build hub page to view all comments and mentions.
- Built feature to add statistical quality checks (like SQC and ASTM) to data visualizations to help secure a **2500+ user enterprise deal** (the biggest in company history).
- Built tools to accelerate engineers, like warning about overloaded/unavailable engineers and enhancing engineer dashboards.

### Emit > Co-founder and Tech Lead > (Nov 2019 – Nov 2021)

- [React; React Native (TypeScript + JavaScript); Google Cloud Platform; CodePush] Founded and developed [a complete social platform startup](#) that made it easier for college students to have spontaneous get-togethers.
- **Architected and built backend** with NoSQL (Firebase), serverless runtimes (Google Cloud Functions) HTTP event queues (Cloud Tasks), push notifications (FCM), blob storage (Cloud Storage), and OTA updates (CodePush).
- **Developed entire product solo** for a year; **led team of 4** and maintained coding standards when co-founders joined.
- Created DevOps tools to **automate dev/prod deploys**, [CodePush releases](#), backups, linting & license attributions.

### Amazon Timestream (AWS) > Software Engineering Intern > (Jun 2021 – Aug 2021)

- [Java AWS Lambdas; S3; React; Three.js; WebGL] Designed and implemented a production [interactive web app](#) for AWS Timestream developers to visualize and analyze partitions of Timestream tables. GPU accelerated.
- Iterated product to prioritize features and handle **>500k partitions** while supporting AWS IAM and VPCs.
- **Coordinated educational session** to teach team about graphics, rendering and GPU fundamentals.

### High Moon Studios (Activision) > Gameplay Engineering Intern > (May 2022 – Aug 2022)

- [C++] Designed and implemented 3 gameplay prototypes for Call of Duty: Modern Warfare II.
- **Restructured code for flagship feature**, the Tactical Camera, so that all camera-based features can use a shared codebase, greatly accelerating developer productivity and **reducing code footprint by over 70%**.

### Lumberjack Apps > Founder & Solo Dev > (Aug 2016 – Jun 2019)

- [Unity; C#; VR] Designed, developed and published (in collaboration with the game publisher [Voodoo](#)) **7 games. 650k+ downloads; 20k+ AU**. Custom physics, in-game currency, online leaderboards, VR & real-time lighting.

## Other Projects

- [Allsearch](#), a web browser portal to diversify how people experience the web. Built with React. (Winter 2023)
- Collaboratively built a physically realistic real-time wildfire [simulator](#). C++ (Spring 2022)
- Tech lead & Co-PM for [Care Intl.](#) platform financial independence platform. Firebase, USSD & React. (Fall 2020)
- [Researched ways](#) to improve GDPR-compliance by designing and vetting PostgreSQL systems. (Summer 2020)
- Procedural shader [generator](#); treated shaders as genotypes, enabling offspring and mutations. C++ (Fall 2020)

## Education

- [Brown University](#) '23 - Computer Science Bachelor's - 4.0 CS GPA; CS Senior Prize; Presidential Scholar