

Sinclair Target

sinclairtarget.com | 347-844-3661 | sinclairtarget@gmail.com

Full-Stack Engineer and Data Analyst

PROFESSIONAL EXPERIENCE

- **City of Boston** Boston, MA
Data Engineering Summer Fellow, Data Analytics Team Summer 2019
 - Created an [interactive visualization](#) of delays on Boston-area bus routes that was used by the Transportation Department to improve traffic flow. Aggregated GPS pings into an approximation of speed using PostGIS queries.
 - Designed an ETL pipeline that any City department could use to track key performance indicators.
- **Breaking Ground** (Affordable Housing Nonprofit) New York City, NY
Application Developer, Data Services Department 2017 – 2018
 - Led development of two new ASP.NET Core web applications that replaced hard-to-use and hard-to-maintain Access databases. Met frequently with users to understand existing workflows and practice user-centered design.
 - Developed a new Flask-based web application to publish PowerBI dashboards to the organization. This application replaced a system that involved people emailing the Data Services Department to request graphs.
 - Worked with colleagues to restructure our SQL Server databases in preparation for building an analytics warehouse. Explained and justified important decisions to non-technical stakeholders.
 - Became an advocate for migrating on-premise infrastructure into Azure. Led by deploying applications to Azure.
- **Playdots Inc.** (Mobile Game Studio) New York City, NY
Full-stack Engineer, Game Services Team 2015 – 2017
 - Led development of the Ruby-on-Rails-based backend for the studio's first game with competitive multiplayer.
 - Optimized backend systems for *Two Dots*, a Webby-award-winning game with a million daily users. Drastically reduced average response times by eliminating inefficient Ruby code and rewriting long-running queries.
 - Managed RDS instances, EC2 instances, Redis clusters, and DNS configuration in Amazon Web Services. Wrote Fabric deployment scripts and Puppet provisioning manifests. Taught other engineers how to deploy their code.
 - Wrote technical specifications for new features that were used to coordinate client- and server-side development.
 - Built internal web applications used to publish limited-time promotions. Adapted these applications to integrate with a third-party CRM tool. This increased average revenue per daily active user by 20 percent.

EDUCATION

- **University of Chicago, Harris School of Public Policy** Chicago, IL
MSc in Computational Analysis and Public Policy 2018 – June 2020
- **Columbia University** New York City, NY
BA in Computer Science 2012 – 2015

SKILLS

- Web application development using the main popular frameworks in **Ruby**, **Python**, and **C#**
- Database administration, performance tuning, and ETL scripting using **Postgres**, **MySQL**, and **SQL Server**
- Frontend development and data visualization using **HTML/CSS**, **JavaScript**, **TypeScript**, and **D3.js**
- Cloud infrastructure and dev ops using **AWS**, **Azure**, **Puppet**, **Fabric**, and **Ubuntu Linux**
- Statistical and geospatial analysis using **Python**, **Pandas**, **R**, **ggplot**, **GeoPandas**, and **PostGIS**
- App and game development for iOS using **Objective-C**, **C#**, and the **Unity Game Engine**

BLOG

- **Two-Bit History** (twobithistory.org)

This is my now three-year-old blog about the history of computing. My [history of the RSS standard](#) was published by *VICE News* and an [article I wrote about the DOOM rendering engine](#) was published by *Ars Technica*.