

EDUCATION

- **Columbia University** New York, NY
Bachelor of Arts in Computer Science; GPA: 3.22 *Sept. 2014 – Feb. 2018*

Relevant Coursework: Data Structures in Java, Advanced Programming, Programming Languages and Translators, Introduction to Databases, Artificial Intelligence, Computer Applications in Health Care & Biomedicine

EXPERIENCE

- **LiveStories (Series A Startup, focused on civic data storytelling)** Seattle, WA
Software Engineer *Aug. 2019 - Present*
 - Built three data visualization components in **d3.js** to accept dynamic data shapes from a large civic data library
 - Implemented data transformations to ingest generic API data and return chart-specific data models in **TypeScript**
 - Improved bar chart UX by unifying multiple **React** components and implementing controls for data grouping and bar direction
 - Introduced caching in a dynamically-populated menu to cut load time in half
 - Onboarded new team members and guided them through their first experiences with d3.js
- **Pedal Technologies, Inc. (Data Visualization Consultancy)** New York, NY
Technical Co-founder *Aug. 2017 - Aug. 2019*
 - Oversaw client acquisition, contract oversight, project management, and technical development
 - *Barnard History Data Portal* for Barnard College
 - Developed a mobile-optimized **Flask** site to showcase research on the institutional history of Barnard College
 - Built an admin system connected to **MongoDB** for data entry, editing, and search
 - Developed a visual data explorer in **d3.js** to reveal long-term trends in the data
 - *MapMaker* for Eurasianet (independent news organization)
 - Built a **Python** app for producing publication-quality maps of Central Asia and the South Caucasus
 - Implemented an efficient greedy algorithm to automatically place labels without overlapping with map features
 - Data visualization for One For The World (community-driven non-profit)
 - Developed an interactive data visualization in **d3.js** to help with donor recruitment and public relations
 - Built a **Flask** data portal to visualize personalized donation data for almost 400 donors and 19 charities
- **Two Bulls LLC (Digital Product Consultancy)** Brooklyn, NY
Software Engineering Intern *Summer 2017*
 - Worked on the Verizon Digital Kiosk, an interactive citizen engagement kiosk
 - Developed UIs with **Angular.js** for managing community data and kiosk settings
 - Integrated **DynamoDB** and **Serverless** backend endpoints with CMS frontend
 - Developed an internal GUI tool in **Golang** for accessing OS environmental variables during onsite maintenance
- **Citi Bike, subsidiary of Motivate** Brooklyn, NY
Software Engineering Intern *Summer 2016*
 - Inducted into *HackNY*, a competitive NYC-based technology startup fellowship
 - Built a **Python** web app for the Citi Bike dispatcher team to monitor bike levels at stations across NYC
 - Developed *gbfs2geojson-js*, an open-source **npm** package that facilitates bike-share feed integration for approximately 50 cities worldwide

PROJECTS *(for more information, visit <https://github.com/TheBatmanofButler>)*

- **The Perfect Number:** Visual data story on federal corporate income taxes (viewed >1000 times in 24 hours)
- **YourGov.ForSale:** Data visualization highlighting networks of corruption in the U.S.
- **Truffle:** Browser-based code editor that features rapid commenting, code visualization, and full code search
- **PolitiColor:** Twitter sentiment analyzer and visualization for 2016 U.S. primaries (Top 30 Hacks at PennApps XIII)

PROGRAMMING SKILLS

- **Proficient:** JavaScript (React, TypeScript, d3.js), Python (Flask, pandas, matplotlib)
- **Familiar:** C, Java, Golang, MongoDB, Angular.js, Node.js, AWS (DynamoDB, S3, Lambda, EC2, EBS, Serverless), Google Cloud, DigitalOcean, Mapbox, nginx, gunicorn, Linux, Tensorflow, scikit-learn, CircleCI