

EDUCATION

- **Columbia University** New York, NY
Bachelor of Arts in Computer Science; GPA: 3.22 *Sept. 2014 – Feb. 2018*
Relevant Coursework: Advanced Programming, Artificial Intelligence, Data Structures, Introduction to Databases

EXPERIENCE

- **LiveStories (Series A Startup, focused on civic data storytelling)** Seattle, WA
Software Engineer (Technical Lead on LiveData) *Sep. 2019 - Present*
 - *LiveData* (Latest version of flagship product, an online data explorer and chart builder for proprietary civic data)
 - **Managed three engineers** across three continents to develop and launch an MVP to replace existing app
 - **Advised CEO** on design/development strategy and **cut sprint planning meeting lengths in half**
 - Developed **4/7 of the MVP's critical features**, including authentication, location-based search, and chart editing
 - Re-architected the search function for the data library and **reduced load time by 40%**
 - Facilitated transition for existing users by integrating LiveData into the current product UX
 - *Forward* (Platform for local governments to provide COVID-19 economic relief to small businesses)
 - Shipped an email campaign launch platform for government clients to reach businesses based on their eligibility for a given aid program, **used by more than half of our clients**
 - Built tabular React UIs for government clients to analyze aid eligibility for **over 10,000 businesses**
 - Developed and maintained UIs to empower struggling businesses to apply to **more than 130 municipal and federal aid programs** and gain access to **over \$600,000 in available pandemic relief**
 - *APEX* (Older version of flagship product)
 - Developed new TypeScript and d3.js chart components that **increased company chart offerings by 25%**
 - Designed and implemented REST APIs in Python and Node to persist chart and app data in PostgreSQL
- **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 app that **enabled students to crowdsource data** at Barnard College
 - Built UIs, API endpoints, and a MongoDB database to support robust features including **individual/batch data upload, editing, search, duplicate detection**, and d3.js **data visualization**
 - Configured and maintained an Ubuntu VPS to run a Gunicorn HTTP server and NGINX reverse proxy
 - *MapMaker* for Eurasianet (independent news organization)
 - Built a cross-platform Python app that **enabled journalists to produce publication-quality maps** of Eurasia
 - Developed a map-generation engine to fetch geocoded data and compile multiple map layers with matplotlib
 - Used custom Python scripts to pre-render map templates and **cut map-generation time in half**
 - Data visualization for One For The World (community-driven non-profit)
 - Built a Flask data portal to visualize personalized donation data for **19 charities and hundreds of donors**
 - Developed an interactive data visualization in d3.js that facilitated donor recruitment and public relations
- **Two Bulls LLC (Digital Product Consultancy)** Brooklyn, NY
Software Engineering Intern *Summer 2017*
 - Developed Angular.js UIs that **enabled admin users to update content** on a Verizon citizen engagement kiosk
 - Built a full-stack app with jQuery and Golang that **facilitated Android OS troubleshooting** for kiosk technicians

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

- **Strudel:** App platform, developer API, and npm component library for building real-time collaboration apps
 - *Contributions:* RESTful API in Golang, database in PostgreSQL, CRDT real-time collaboration server using yjs and Node, UI using React and Material Design, deployment in Docker containers on a DigitalOcean Ubuntu VPS

TECHNICAL SKILLS

- **Proficient:** JavaScript (React, TypeScript, d3.js), Python (Flask, numpy), Golang
- **Familiar:** Docker, Redux, SQL, Material Design, MongoDB, Node.js, DigitalOcean, AWS (EC2, DynamoDB, S3, ECS), Linux, C, Java, Angular.js, CI/CD, Mapbox, Gunicorn, NGINX, yjs