# Ganesh Ravichandran

https://thebatmanofbutler.github.io

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## 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*                                                                             *Sep. 2019 - Present*
  - Developed new donut and bar chart components for a **React**, **d3.js**, and **TypeScript** component library
  - Implemented data transformation layers to ingest generic API data and return chart-specific data models
  - Improved charting UX by building custom data visualization controls (data grouping, bar axes, error bars, tooltips, legends, colors)
  - Introduced caching in a dynamically-populated menu and reduced page loads by 50%
  - Supported team through project onboarding and d3.js introductions/walkthroughs

- **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