Ganesh Ravichandran

https://thebatmanofbutler.github.io Mobile: 516-382-2920

### **EDUCATION**

• Columbia University

New York, NY

Bachelor of Arts in Computer Science; GPA: 3.22

Sept. 2014 - Feb. 2018

Email: ganesh.ravichandran@columbia.edu

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

Sep. 2019 - Present

- o Designed and implemented REST APIs in Python and Node to persist chart and app data in PostgreSQL
- Developed new donut and bar chart components for a React, d3.js, and TypeScript component library
- o Implemented data transformation layers to ingest generic API data and return chart-specific data models
- o Improved charting UX by building custom data visualization controls (data grouping, bar axes, error bars, etc.)
- $\circ$  Supported team through new product design, project onboarding, and d3.js introductions/walkthroughs

## • Pedal Technologies, Inc. (Data Visualization Consultancy)

New York, NY

Technical Co-founder

Aug. 2017 - Aug. 2019

- o Oversaw client acquisition, contract oversight, project management, and technical development
- o Barnard History Data Portal for Barnard College
  - Developed a mobile-optimized **Flask** site to showcase research on the institutional history of Barnard College
  - Built UIs, API endpoints, and a **MongoDB** database for individual/batch record upload, editing, search, duplicate record detection, and **d3.js** data visualization
  - Configured and maintained Gunicorn and NGINX servers on an Ubuntu VPS
- MapMaker for Eurasianet (independent news organization)
  - Built a cross-platform **Python** app for producing custom, publication-quality maps
  - Developed a map-generation engine to fetch geocoded data and compile multiple map layers with matplotlib
  - Implemented a custom greedy algorithm to solve the Point-Feature Label Problem
- o 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

- o Developed UIs with **Angular.js** for the Verizon Digital Kiosk, an interactive citizen engagement kiosk
- o Developed an onsite maintenance GUI with a Golang web server for accessing OS environmental variables
- Integrated DynamoDB and Serverless backend endpoints with CMS frontend

#### • 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
- $\circ$  Developed an open-source **npm** package that facilitates bike-share feed integration for  $\sim 50$  cities worldwide

# Projects (for more information, visit https://github.com/TheBatmanofButler)

- Strudel: Platform for developers to quickly build 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 using Docker containers on AWS EC2
- The Perfect Number: Visual data story on federal corporate income taxes (viewed >1000 times in 24 hours)
  - o Contributions: Data visualization using d3.js and HTML Canvas, exploratory data analysis using pandas

#### TECHNICAL SKILLS

- Proficient: JavaScript (React, TypeScript, d3.js), Python (Flask, numpy, pandas, matplotlib), Golang
- Familiar: Docker, Material Design, MongoDB, Node.js, AWS (EC2, DynamoDB, S3), Linux, C, Java, Angular.js, CircleCI, Mapbox, Gunicorn, NGINX, yjs