Ganesh Ravichandran

https://thebatmanofbutler.github.io

EDUCATION

• Columbia University

New York, NY

Bachelor of Arts in Computer Science; GPA: 3.22

Sept. 2014 - Feb. 2018

Mobile: 516-382-2920

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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
- \circ 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)
- \circ 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

- 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 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
- 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
- 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
- o 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)
- 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, numpy, 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