

# Morgan Hartley

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## Profile

Software Engineer with 8 years of experience in full stack web development and big data, and proven leader who has scaled businesses to the \$1M revenue mark.

## Skills

- Managing software teams
- Data management in Relational and NoSQL databases, with a specialty in managing database performance
- Big data analysis and straightforward ML projects
- Backend Development – especially Django, Flask, and Numpy
- DevOps -- AWS, Docker, linux configurations, networking, cloud security
- Front end development in React, Vue, Vanilla JS and other frameworks
- Data visualization in d3.js
- Geodata applications using GIS and custom mapping layers

## Experience

March 2019 – Current

Head of Software | Wox Campaigns | Boulder, CO

Created and scaled the most widely used software platform for paid canvassing and petitioning. I led architecture, design, implementation, and site reliability of enterprise software and mobile apps used by political campaigns for real-time data collection.

- Hired and managed team of three developers
- Web and mobile apps in React, D3.js, and Tailwind
- Distributed cloud architecture using a mix of Lambda Functions and EC-2 servers, managed by Terraform.
- System built on three different APIs, with our web application backend in Django Rest and service apis in Flask.
- System load of 100K+ in person contacts on peak days
- Supervised development of custom OCR neural net that would validate handwritten voter petitions with the Secretary of State database, drastically speeding up QC process
- Developed a “move fast” culture that allowed us to release features within days of client requests to meet campaign needs.

December 2017 – December 2019

Senior Software Engineer | Wageup, Inc (Contractor for AAA) | Denver, CO

I worked here as a full stack web and mobile developer building the dispatch and performance tracking software for AAA clubs.

- Principal architect of a mobile app and performance tracking system that was installed on driver devices across east coast and California AAA clubs.
- Built a microservice constellation that could integrate with legacy client databases in Flask
- Vue and D3.js dashboard for intuitive visualization of driver metrics across clubs and dispatch centers
- Responsible for dev-ops operations, including cloud security, document storage, auto-scaling, and disaster recovery.

March June 2014 – December 2017

Digital Political Consultant | Self Employed | Denver, CO

- Data and digital communications consultant for political campaigns, from city council to congressional level
- Implemented custom email programs, voter contact logic chains, and targeting models to narrow the list of voters to contact
- Job came with many other responsibilities universal among small campaigns: Candidate management, fundraising, and managing field programs
- Worked for roughly a dozen major clients over four years

## Other Projects

December March 2019 – March 2023

Lead Developer | CleanFi | Boulder, CO

- Worked with Family to build a joint business in commercial solar lending
- Developed platform in React and Django to give prospective clients immediate financing quotes from various financing mechanisms
- Admin platform allowed us to tune hundreds of variables that went into these quotes, including geography, interest rates, deal structures, and many other financial parameters
- Widely used, having quoted more than \$1 billion in solar financing

March 2012 – January 2014s

Postulate One | Paris, France to Shanghai, China

- Rode my bike 16,000 miles from Paris to Shanghai
- Wrote articles and dispatches about stories we found along that way for Forbes, The Atlantic, Huffington Post, and other publications
- Developed and maintained website we used to raise money for the journey

March 2009 – January 2012

Co-Founder | Moneythink | Chicago, IL

- Financial Literacy non-profit dedicated to teaching students the basic tools for financial literacy and prepare financial aid applications for college
- Raised initial budget for the organization, roughly \$60k/yr
- Org now funded by the Gates foundation with professional staff

## Education

- **University of Chicago**, BA Political Science '11

## Language

- English, Mother Tongue
- Spanish, Fluent
- French, Fluent