BRIAN **CASTRO**

Backend & Full-Stack Software Engineer

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San Francisco, CA

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Tech Stack: Python, Flask, Django, JS/TypeScript, Linux, Bash, GCP, Kubernetes, Docker, React, Ruby

> EXPERIENCE

Orbital Sidekick | Software Engineer | San Francisco, CA   Oct 2021 - Present
- Develop API in Python and Django Rest Framework used for finding and accessing satellite imagery data, and tasking satellites to capture new imagery from the GHOSt satellite constellation.
- Completed USGov contract to develop and release API for tracking satellite positions, imagery opportunities, image collection and retrieval. Presented completed API to clients at conclusion of contract.
- Make major design decisions on API usage, access, data models, to ensure a maintainable product that fits with customer needs on tight deadlines.

Badge List | Software Engineer Contractor | San Francisco, CA/Remote   Nov 2020 - Sep 2021
- Determine best methods to close ticket issues while balancing engineering time, code maintainability and meeting ticket requirements, working with engineering team to settle on the best solution.
- Refactor Backend APIs in Ruby and Rails, and create new front end views using Javascript, HTML, and Lit
- Add new features to web application to meet client needs as product expands to larger market
- Track down and fix bugs reported by early users, ensuring app meets expectations for future customers

Virta Health | Sr. Software Engineer | San Francisco, CA   Sep 2019 - Mar 2020
- Added features to full-stack web application for patient onboarding, developing a backend written in Python and Flask, and a front end using Typescript and React. API and code generation created in Swagger.
- Prepared patient enrollment portal for 30 new clients by setting up the pipeline to accept thousands of applicants from the client, and appropriately determine the patient's eligibility for the treatment.
- Developed tools for dev infrastructure supporting engineering team of 20, for company-wide migration to GCP.

Various Companies | Software Engineer Contractor | SF Bay Area   2017 - 2019
Potato Inc.   Jan - Apr 2019
- Redeveloped backend of public-facing web-application using Python, Django, and Google App Engine
- Took ownership over several API endpoints and related backend logic, and deployed application to production meeting client expectations and generating positive feedback from users.

Google   Mar - Sep 2018
- Upgraded B2B app to new standards in advance of product launch while ensuring code maintainability
- Migrated backend to a RESTful Flask-based API (Python), and frontend to Angular (Typescript), rewriting endpoints and logic for a product with ~20k lines of code.

Pinterest   Oct 2017 - Jan 2019
- Deployed and shipped upgrade for an internal tool on time for a tight and legally-mandated 10 week deadline.
- Contributed to Python and JavaScript codebase, taking ownership of all relevant components of application
- Worked closely with project stakeholders at various teams across Pinterest, divvying up engineering tasks, and ensuring the resulting product met legal requirements as well as user expectations.

Ampex Data Systems | Software Engineer | Hayward, CA   Dec 2015 - Oct 2017
- Responsible at every stage of development of multiple major features and new versions of application, from early drafting of UI to software design and final implementation across the stack.
- Built web-app from ground-up using JavaScript, JQuery, Python & Flask, and wrote extensive documentation

> EDUCATION

B.S. Geophysics, *University of Rochester* 2013

- Data Structures, Algorithms, Artificial Intelligence, Partial Differential Equations, Linear Algebra, Calculus, Physics, Geophysics, Astrophysics, Planetary Science

> PROJECTS & OTHER WORK

StarGAZR | Project Lead | [Hosted Online](#) | [Github Repo](#)

Platform for finding the best spots to go stargazing by aggregating sources that report astronomical seeing conditions.

- Won best design at [Science Hack Day](#) by leading a team of 8 in constructing a RESTful web application with Python, JavaScript, HTML5 and CSS3 that utilizes multiple API's and web resources.
- Currently being rebuilt from ground up using Python 3 and Go, running on GCP. [WIP Demo](#).

San Francisco Bay Area Outreach Coordinator | The Planetary Society Jun 2016 - Present

- Revitalized the long defunct Bay Area chapter of a non profit dedicated to promoting space exploration, corresponding with 2000+ members to organize events coordinated with NASA and other space organizations