

BRIAN CASTRO

Backend & Full-Stack Software Engineer

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San Francisco, CA

LinkedIn: [linkedin.com/in/briangcastro](https://www.linkedin.com/in/briangcastro)

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Website: briangcastro.com

Skills: Python, Flask, Django, Javascript, TypeScript, Linux, Bash, GCP, Tilt, Kubernetes, Docker, Postgres, React, Elixir

> EXPERIENCE

Virta Health | Sr. Software Engineer | San Francisco, CA

Sep 2019 - March 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 internal infrastructure to support a team of 20 engineers, focused on using Tilt for local development and deploying to Kubernetes on GCP, as a part of a company-wide migration away from AWS.

Potato (Project Contract via TechSource Inc) | Software Engineer | San Francisco, CA

Jan 2019 - May 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, taking initiative on completing related tasks and bug fixes that arise to ensure swift resolution to new tickets.
- Deployed application to production meeting client expectations and generating positive feedback from users.

Google (Fixed-Term Contract via SMCI Inc) | Software Engineer | Mountain View, CA

Mar 2018 - Sep 2018

- Upgraded Google Analytics' Partner Analytics Gallery to meet current Google code standards in preparation of the launch of a new product while ensuring future maintainability of the codebase.
- 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.
- Ensured Unit testing coverage for backend with Python unittest module and front end using Jasmine.

Pinterest (Project Contract via TEKSystems) | Software Engineer | San Francisco, CA

Oct 2017 - Jan 2018

- 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 finally implementation across the stack.
- Built web-app from ground-up using JavaScript, JQuery, Python & Flask, and wrote extensive documentation

> EDUCATION

B.S. Geomechanics, University of Rochester

2013

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

> PROJECTS

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

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

- Won best design at [Science Hack Day](#) by leading a team of 8 in constructing demo RESTful web application with Python, JavaScript, HTML5 and CSS3 that utilizes multiple API's and web resources.

> ORGANIZATION & MANAGEMENT

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