BRIAN **CASTRO**

Backend & Full-Stack Software Engineer

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> LANGUAGES AND TECHNOLOGIES

- **Core Skills:** Python, Flask, Django, JavaScript, TypeScript, Bash Script, Datastore, AppEngine, Angular, Linux

> EXPERIENCE

Potato (via TechSource Inc) | Software Engineering Consultant | San Francisco, CA   Jan 2019 - May 2019

- Redeveloped backend of public-facing web-application for client, Google, to meet new security requirements using Python and Django, Google App Engine, and (non-relational) Datastore.
- 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.
- Tested application using python unittest module and selenium, and conducted code reviews in GitLab

Google (via SMCI Inc) | Software Engineering Consultant | 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 new product while ensuring future maintainability of 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 (via TEKSystems) | Software Engineering Consultant | San Francisco, CA   Oct 2017 - Jan 2018

- Extended functionality of internal content review tool to meet legally mandated tight 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 that resulting product met legal requirements as well as user expectations.
- Ensured over 90% unit test coverage for new code, integration tests of new features within existing program, and conducted code reviews of colleagues contributions.

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.
- Developed web-based GUI from ground-up using JavaScript, JQuery, Python and Flask.
- Improved detail of documentation 3-fold and increased readability in describing features, software changes, updates and testing procedures focused at both layman users and internal engineers.

> EDUCATION

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

- <u>Coursework</u>: Data Structures, Algorithms, Artificial Intelligence, Partial Differential Equations, Linear Algebra

> PROJECTS

StarGAZR | Project Lead | live demo | code
Platform for finding the best stargazing spots by aggregating sources that report astronomical seeing conditions.

- Won best design at Science Hack Day by leading 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 space-focused non profit, corresponding with 2000+ members to hold events, give talks, and organize events coordinated with organizations such as NASA Ames; USS Hornet Sea, Air, and Space Museum; and Novato Space Station Museum.