PETER DOWNS

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EDUCATION

Massachusetts Institute of Technology *June 2018 (anticipated)*
B.S. in Computer Science & Engineering (6-3)
Cumulative GPA: 4.7/5.0

WORK EXPERIENCE

B12 Summer 2016
Software Engineering Intern *New York City, NY*

· Helped implement a full design rebrand of the company website.
· Improved the usability and capabilities of an internal-only tool for designing websites.
· Implemented an asset-fetching pipeline giving web designers access to a customer's existing content (such as text, images, and video) while designing.
· Exploratory research on using machine learning techniques to build more effective web design tools.

Beme, Inc. Summer 2015
Software Engineer *New York City, NY*

· Designed and implemented the authentication scheme used by the Beme mobile app. Contributed to and largely re-wrote an open source library for this purpose: https://github.com/peterldowns/vangoh
· Implemented product features, such as video and user recommendation algorithms.
· Refactored existing web server code (Golang) to make it much easier to write tests against API endpoints.
· Investigated and compared many different reverse geocoding services.

Coinbase, Inc. January 2015
Software Engineering Intern *San Francisco, CA*

· Wrote and released an open source Python client library for the new Coinbase API:
https://github.com/coinbase/coinbase-python
· Improved web site performance by profiling existing Ruby code and modifying caching behavior.

Locu, Inc. / GoDaddy September 2012 – June 2014
Software Engineer *San Francisco, CA*

· Worked as a full-stack web developer. Developed, maintained, and improved the site's backend (Python/Django) and frontend (Javascript/JQuery/Angular).
· Designed and implemented a novel Javascript content layout algorithm (provisional patent filed).
· Designed, implemented, and open-sourced a complete OAuth2 server implementation for Django.
· After company acquisition by GoDaddy, helped lead team working on user authentication and payment system integration.
· Advocated for and implemented better code review and testing protocols.

The High Energy Physics Lab at The University of Pennsylvania, Summers 2010-2011
Software Engineering Intern *Philadelphia, PA*

· Wrote low-level software for medium-scale data collection and processing.
· Created internal tools that greatly increased the speed of hardware testing.