

# BIANCA DANFORTH

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## LANGUAGES

Proficient with JavaScript  
and familiar with Python

## TECHNOLOGIES

Experienced with front-end performance profiling,  
Webpack, Git, Mercurial, continuous integration  
(Travis, CircleCI) and shell scripting

## EXPERIENCE

### Mozilla, Mountain View CA

#### Senior Software Engineer, Firefox Password Manager

MARCH 2020 - PRESENT

- Increased password generation usage by 400% using a machine learning model for [new password fields](#) in the Firefox Password Manager.
- Gave an invited [presentation on front-end performance and profiling](#).

#### Software Engineer, Firefox Experiments

MARCH 2018 - MARCH 2020

- As part of a multidisciplinary team, designed, developed and shipped a [high-fidelity shopping assistant prototype](#) in less than 4 months.
- Implemented browser extension local storage [read](#) and [write support](#) in Firefox Developer Tools.

#### Software Engineer, Firefox Experiments (Contractor)

MAY 2017 - MARCH 2018

- Ported the legacy privacy add-on Lightbeam to use the cross-browser [WebExtensions API](#) in Firefox (see also my [Mozilla HACKS blog post](#)) through the [Outreachy](#) program.

### Exploratorium, San Francisco CA

#### Mechanical Design Engineer

MAY 2014 - JUNE 2016

- Designed, prototyped and built 10 science exhibits (for example, [Ferrofluid Pool](#)) for multiple institutions as the engineering lead.

## EDUCATION

### Stanford University, Palo Alto CA

#### M.S., Mechanical Engineering

SEPTEMBER 2010 - JUNE 2012

- Teaching Assistant for ME 203, Design & Manufacturing for two years.

#### B.S., Mechanical Engineering

SEPTEMBER 2006 - JUNE 2010