

## Contact

### Reach Me

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### Find Me

ezb.io  
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## Coursework

### Computer Science

Type Systems  
Complexity Theory  
Operating Systems  
Machine Learning  
Algorithms  
Decidability & Tractability  
Functional Programming  
Graphics

### Mathematics

Information Theory  
Model Theory  
Abstract Algebra  
Bayesian Inference  
Game Theory  
Discrete Math  
Real Analysis

### Interdisciplinary

Biomolecular Computation  
Biological Data Analysis

## Software

### Operating System

Linux (Ubuntu / Arch)  
Mac OSX  
Windows

### Development & Workflow

mosh + tmux + kakoune  
git, mercurial, perforce  
Xcode, Atom, Sublime Text  
sway

### Design

Photoshop CS6  
Sketch 3

### Office Tools

Apple Pages & Keynote  
GSuite MS Office Suite

## Languages

### Fluent

English  
Português

### Proficient

Español

### Basic

Japanese

# Enrico Borba

## Education

### California Institute of Technology

B.S. Computer Science

(2015 - 2019)

## Work Experience

### Google Software Engineer

(Sept 2019 - Present)

Working on the Interactive Questions team. Improved the freshness of answers, created an automatic pipeline to initialize and monitor data refreshes, and built a cache system to dramatically speed up pipeline reruns.

### Van Valen Lab Research Student

(Sept 2018 - June 2019)

Used Machine Learning (CNNs & NNs) to perform segmentation & cell tracking on movies of biological cells. Greatly improved the cell tracking model accuracy on detecting divisions and created a (now patented) data curating tool to quickly correct incorrect outputs.

### Mitsubishi Engineering Intern in Japan

(Summer 2018)

Worked on the systems division to create the infrastructure for sensor data collection & processing inside next generation vehicles. Constructed a model to detect drowsiness and impairment in drivers using biometric sensors and driving data.

### Facebook Software Engineering Intern

(Summer 2017)

Worked with the Search as a Service (SaaS) team. I wrote a scaled down version of the existing SaaS platform for teams looking to test out the service. This involved scripting (bash/Python), data mining (MySQL, Hadoop, Hive), and building a web frontend (HHVM).

### Google Software Engineering Intern

(Summer 2016)

Wrote an RPC (remote procedure call) tracing tool for the Vanadium project in Golang. Set up a protocol, "HTTP over RPC", which would serve HTML pages which contained data on the RPCs. I also worked with Google Street View to enable car operators to mark road conditions (dirt, private, or public) with a joystick.

## Projects & Programming Languages

### Tyme

Track your moments effortlessly. A non-intrusive time tracker that lets you analyze your life.

### Myth

My attempt at the best programming language: writes like Python; runs like C; liberal like Javascript; safe like OCaml.

### Python-CRN

A Chemical Reaction Network simulator presented as a Domain Specific Language. Supports stochastic and deterministic networks.

### Crick

HQTrivia Human assistant: Using OCR from a continuous screen capture, provides short, expressive, and context-aware Google queries.

### XaTeLite ("satellite")

LaTeX over HTTP workflow. Edit the source file over SSH and visit a website for the pdf.

### Expert

Python 3.7+

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### Advanced

OCaml  
C++11  
JavaScript  
Processing

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### Proficient

Lean  
Haskell  
C

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### Basic

Swift  
R  
Elixir  
Golang  
Hack (HHVM)  
Rust  
MATLAB

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