

SUMMARY

I am a full stack and distributed systems engineer with a passion for cloud computer. I have expertise in designing, implementing, and scaling distributed architectures end-to-end. I also have multiple years of experience with full stack applications and backend database development. Proficiency in Node.js and Ruby on Rails.

EXPERIENCE

Conclave (<https://bit.ly/conclave-site>)

Co-Creator

New York, NY

October 2017—Present

- Co-created and deployed an open source, real-time, P2P, collaborative editor.
- Built a custom conflict-free replicated data type (CRDT) to increase throughput by over 1000%.
- Created a P2P architecture using WebRTC to reduce network latency upto 3000%.
- Utilized a distributed system and the gossip protocol to reduce scaling costs by 100%.
- Implemented a load-balancing algorithm to scale the application to dozens of concurrent users.
- Built a version vector to guarantee causality and merge non-commutative operations.
- Wrote a detailed case study that was published in a well known technology publication and requested by several other publications.

Freelance Full Stack Engineer

Full Stack Engineer

New York, NY

January 2016—August 2017

- Created an extensive multi-page portfolio site for a graphic design client that helped her land a six-figure salary design position in New York City.
- Improved my programming and web development skills through various self-motivated projects, console games and full stack web applications.

RECENT PROJECTS

Mello

github.com/sunny-b/mello

- List application that allows user to create, delete, label, search, and reorganize lists and cards.
- **Live Demo:** <https://trello-clone-sjb.herokuapp.com>
- **Stack:** Express, Node.js, Backbone.js Handlebars, Jade
- **Rebuild using Rails/React:** <https://github.com/sunny-b/reaction>

OpeningAct (featured in Ruby Weekly)

github.com/sunny-b/opening_act ~3000 downloads from rubygems.org

- A ruby gem that creates a Sinatra scaffold in a single shell command.
- **Stack:** Ruby, Sinatra

EXTRACURRICULAR

Technical Blog Writer

December 2016 - Present

Currently wrote 16 articles about various software engineering topics with ~3000 views.

SKILLS & LANGUAGES

Back End: Ruby, Ruby on Rails, Node.js, Express, RESTful APIs

Front End: JavaScript, React, Redux, Backbone.js

Other: WebRTC, PostgreSQL, Distributed Systems

EDUCATION

University of Washington

Seattle, WA. September 2009-December 2012.

B.S. in Oceanography. GPA: 3.8 – Cum Laude.