

## SUMMARY

I am a full stack and distributed systems engineer with a passion for creating scalable and reliable services. I have expertise in designing, implementing, and scaling distributed architectures. I also have multiple years of experience building consumer facing software with a proficiency in Rails, Node, Linux, SQL and RESTful APIs.

## 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 conflict-free replicated data type to increase throughput by over 1000%.
- Created a P2P architecture using WebRTC to reduce network latency up to 3000%.
- Utilized a distributed system and 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 (<http://bit.ly/conclave-post>) that was published in a popular technology publication and garnered around 5,000 views.

### Contract Full Stack Engineer

**Full Stack Engineer**

**New York, NY**

**January 2016—August 2017**

- Worked with various design and development teams to create consumer-facing websites and software that increased web traffic by up to 100%.
- Improved my programming skills through open source contributions, full stack web applications and ruby gems that were featured in **Ruby Weekly**.

## RECENT PROJECTS

### Mello

[github.com/sunny-b/mello](https://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, Heroku
- **Rebuild using Rails/React:** <https://github.com/sunny-b/reaction>

### Sushi To-Go

[github.com/sunny-b/sushi\\_shop](https://github.com/sunny-b/sushi_shop)

- Sushi e-commerce website where users can add and remove items from their cart, view all available options, and checkout.
- **Live Demo:** <https://sushishop-sjb.herokuapp.com/index.html>
- **Stack:** Express, Node.js, Backbone.js, Handlebars, Heroku

## EXTRACURRICULAR

### Technical Blog Writer

**December 2016 - Present**

Currently wrote 16 articles about various software engineering topics with ~6000 views.

## SKILLS & LANGUAGES

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

**Front End:** Javascript, React, Redux

**Other:** Git, Linux, Distributed Systems, WebRTC, Heroku

## EDUCATION

### University of Washington

**Seattle, WA. September 2009-December 2012.**

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