

## Experience

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### Senior Software Engineer

#### Homeroom

Mar 2019 – Present

San Francisco, CA (remote)

- Mentored and guided team members, performed code reviews, guided architecture and system design.
- Optimized backend performance by 300% during peak time by redesigning our locking strategy and fine tuning our production environment resulting in higher sales with less infrastructure expenditure.
- Developed a CLI tool to create and deploy isolated testing environments which resulted in reduced total bug count and increased feature development and validation speed.
- Implemented a developer environment for increased developer productivity by leveraging vagrant, containers and virtual machines.
- Technologies utilized: Ruby On Rails, TypeScript, PostgreSQL, React, Redux.

### Senior Software Engineer

#### CareZone

Jul 2015 – Dec 2018

Seattle, WA (Remote)

- Designed and implemented a data synchronization scheme between the application, physical pharmacy and warehouse to power an online pharmacy store.
- Guided other team members on Ruby, organized internal tech talks, lead small teams.
- Improved application performance by implementing more efficient algorithms and optimizing our database queries resulting in better user experience.
- Technologies utilized: Ruby On Rails, Javascript, Go, PostgreSQL, React, Redux.

### Founder

#### Hello Code

Apr 2014 – May 2015

Hermosillo, SON, MX

- Co-founded the company, made first hires, managed the team, secured angel investment and landed strategic partnerships.
- Designed and implemented Chopeo, a multi-tenant e-commerce service which grew to serve 250 small micro-business stores.
- Technologies utilized: Ruby On Rails, Javascript, Common Lisp, PostgreSQL.

### Spacecraft Software Engineer

#### Spire Global, Inc

Aug 2013 – Nov 2013

San Francisco, CA

- Implemented the radio module firmware for ground-to-satellite communications for ArduSat2 on a record-breaking four month design-to-implementation satellite project.
- Implemented an embedded linux daemon for process control and monitoring for Lemur-1.
- Technologies utilized: C, Python, FreeRTOS, Arduino, ARM.

### Senior Software Engineer

#### Expensify

Feb 2013 – Jun 2013

San Francisco, CA

- Spearheaded the training of marketing and sales on the use of SQL by themselves resulting in improved targeted ads campaigns.
- Implemented new features and new bank integrations which increased the range of customers served.
- Optimized database queries by carefully profiling the application ensuring we conform to strict SLAs.
- Technologies utilized: PHP, Javascript, C++, MySQL.

## Engineering Manager

INgrooves

Apr 2009 – Dec 2012

San Francisco, CA

- Managed and empowered technical teams on major company-wide projects.
- Bootstrapped the first version of an ebook distribution platform, INscribe Digital, bringing in a new revenue stream.
- Architected an album ingestion enterprise-grade system driving the distribution pipeline of thousands of the most sought after musical property in the world.
- Technologies utilized: C#, C++, .NET 3.5, SQL Server, IIS.

## Senior Software Engineer

Nearsoft

Aug 2008 – Sep 2009

Hermosillo, SON, MX

- Developed a online real-time chat application by leveraging HTML, Javascript and XMPP powering the a haggling platform startup.
- Technologies utilized: PHP, C#, Javascript, MySQL.

## Senior Software Engineer

Centro de Investigación y  
Desarrollo de Ingeniería  
Avanzada

Feb 2006 – Aug 2008

Hermosillo, SON, MX

- Implemented an image processing and analyzing application accelerating progress on a optical profilometry research.
- Lead a small team that developed a meat grade classifier that brought forward the state of the art in computer vision and improved mexican slaughterhouses processes.
- Implemented a prototype spectrophotometer for coffee bean roast measurement in an effort from local coffe roasting industry to innovate.
- Technologies utilized: C#, C++, .NET, Java, OpenGL, Matlab.

## Personal Open Source Projects

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- **tracing.js** (<https://github.com/ebobby/tracing.js>) Function tracing and debugging Javascript library. Javascript
- **has-many-with-set** (<https://github.com/ebobby/has-many-with-set>) A smarter way of doing many-to-many relationships in Ruby On Rails. Ruby On Rails
- **simple-pathtracer** (<https://github.com/ebobby/simple-pathtracer>) Simple path tracing project in Rust. Rust

## Education

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Hermosilo, Sonora

Universidad de Sonora

Aug 2001 | Dec 2005

- BS in Computer Science. GPA: 3.3

## Skills

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- Proficient: Ruby, Javascript, C, SQL, Linux
- Familiar: C#, Rust, Python, Java, Lisp, C++