

Experience

Senior Software Engineer **Homeroom** **Mar 2019 – Present**

San Francisco, CA (remote)

- 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.
- 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 Chopeco, 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

- **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

Hermosilo, Sonora

Universidad de Sonora

Aug 2001 | Dec 2005

- BS in Computer Science. GPA: 3.3

Skills

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