
EXPERIENCE

Senior Software Engineer Berkeley, CA (remote)	dumpling	Nov 2020 – Present
<ul style="list-style-type: none">Developed a web-based system to curate the catalog powering our grocery delivery platform. The system allowed in-place real-time changes to our catalog improving quality and quantity of products and services provided throughout our platform. The product catalog went in a just a few weeks from being just good enough to excellent and comprehensive, one of our strongest assets.Developed a time stream database based search result ordering system. It aggregated user and global preferences while searching for products improving personal search results improving user retention and engagement.Technologies utilized: Python, AWS Cognito, AWS AppSync, AWS DynamoDB, AWS Time Stream, AWS Serverless Lambda.		
Senior Software Engineer San Francisco, CA (remote)	Homeroom	Mar 2019 – Sep 2020
<ul style="list-style-type: none">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 Seattle, WA (Remote)	CareZone	Jul 2015 – Dec 2018
<ul style="list-style-type: none">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 Hermosillo, SON, MX	Hello Code	Apr 2014 – May 2015
<ul style="list-style-type: none">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 San Francisco, CA	Spire Global, Inc	Aug 2013 – Nov 2013

- 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 coffee 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