



Terry Ma

Experienced software engineer passionate about fintech, health & fitness, and helping others achieve financial freedom

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EXPERIENCE

Rhyzin

Bellevue, WA

Founder

Nov 2020 - Now

Convoy

Seattle, WA

Senior Software Engineer

Sep 2018 - Nov 2020

- Founding member on Infra. Designed and built distributed tracing, service generator, service maturity score, and various other foundational infrastructure software.
- Oversaw and contributed to the hypergrowth of infra from 3 to 20, engineering from 40 to 180, and the number of services from 2 to 40 in less than two years.
- Built the scheduling automation integration with Transportation Management Systems using Puppeteer, resulting in significant cost reduction per shipment for Convoy.

Arivale

Seattle, WA

Team Lead

Feb 2016 - Sep 2018

- Tech lead and manager of the Platform Engineering team. Scaled our micro-services fleet to more than 30 services.
- Reduced AWS cost by ~\$60000/year by deep diving into resource usage and implementing cost saving solutions.
- Designed and implemented AuthN and AuthZ infrastructure for all services at Arivale using JWT and Auth0.
- Created tools to generate code (Yeoman) and infrastructure (Terraform) for new micro-services.
- Designed and built staging and production AWS infrastructure and continuous deployment pipeline.
- Designed and led massive migrations of all services to Application Load Balancers, CodePipeline+CodeBuild, shared Docker base images, Terraform, and Sentry
- Implemented Operational Excellence with oncall best practices, integration with Sentry and Sumologic, and alarming with CloudWatch and OpsGenie.
- Built a crawler farm with Scrapy and Tor to crawl LabCorp's appointment website to obtain patient blood draw availability.
- Built the Logistics Portal and the backend services powering it. Provides tools to assemble, assign, and view inventory of all physical shipments of Arivale (welcome boxes, replacement packages, sample kits, etc)

Amazon - Amazon Go

Seattle, WA

Senior SDE

May 2014 - Jan 2016

- Designed, architected, and implemented various tier-1 platform services for Amazon Go pre-launch.
- Built various tools for fellow devs using AngularJS, Coffeescript, and threejs.

Google - Hangouts

Kirkland, WA

Software Engineer

Oct 2012 - Apr 2014

- Supported launch of Google Hangouts with cross stack logging and analytics improvements to ensure that we have solid, accurate user data during launch.
- Implemented log analytics pipelines in MapReduce that aggregate terabytes of daily Hangout logs.

Amazon - AWS EBS

Seattle, WA

SDE

Apr 2011 - Aug 2011, Feb 2012 - Sep 2012

- Lead engineer on new AWS initiative to drive enterprise adoption with emphasis on security and data isolation.
- Responsible for the entire SDLC of the project, including but not limited to initial prototyping, architecture and design, coding, performance, functional, and integration test, deployment and team building.
- 300+ interviews (phone screen + onsite + on campus) in over 4 years at Amazon.
- Consistently exceeds expectations in all annual performance reviews.

Amazon - AWS Marketplace

Seattle, WA

SDE

Aug 2011 - Feb 2012

- Lead engineer on a document based workflow system using AWS SWF to handle marketplace product ingestion.
- Lead engineer on internal Rails site with haml and Bootstrap to help gain operational visibility into the services, workflows, and the product catalog.
- Prepared extensive operational readiness wiki for the AWS Marketplace launch using my deep operations experience.

Amazon - Gift Cards

Seattle, WA

SDE

Jul 2008 - Apr 2011

- Core engineer on internal website hosting tools related to Gift Certificates.
- Core engineer on the integration with third party printing vendor for the new generation of Paper Gift Certificates.
- Core engineer on the integration with Amazon FPS (Flexible Payment Service) for the AGCOD (Amazon Gift Codes On Demand) web service product.
- Lead engineer on Amazon's Facebook Gift Cards which allows customers to send Gift Cards through Facebook.

EDUCATION

University of Texas

Austin, TX

B.S. in Computer Science - Turing Scholars Honor Program

Aug 2004 - May 2008

- GPA: 3.6/4.0

SKILLS

- Over 12 years of experience with building scalable, distributed systems
- Over 10 years of experience working in AWS
- Incredibly fast learner. Possessing high degree of bias for action. Delivers results fast with high standard for quality
- Excellent full stack engineer with tons of experience in frontend, backend, infrastructure, and big data pipelines.
- Fluent in reading, writing, and conversing Mandarin Chinese
- Programming Languages: TypeScript, JavaScript, Java, Python, Ruby, C, C++, Bash
- Frameworks/Libraries: Apollo, GraphQL, NodeJS, Express, Spring, Hibernate, MapReduce, jQuery, Bootstrap, Rails, AngularJS, threejs, React, React Native, Docker, Yeoman, Terraform
- Persistence Store: PostgreSQL, S3, DynamoDB, Redis

PROJECTS

Vim Multiple Cursors

<https://github.com/terryma/vim-multiple-cursors>

One of the most popular Vim plugins.

Over **7000** stars on Github

Vim Expand Region

<https://github.com/terryma/vim-expand-region>

Another popular Vim plugin that allows you to visually select increasingly larger regions of text

PokeGoGo

<https://bitbucket.org/pokegogo/pokegogo>

A PokemonGo distributed scanner for discovering nearby Pokemons

Drawer

<https://bitbucket.org/terryma/drawer.io>

A free service competing with pocket/instapaper/readability/kippt.

Cast for Reddit

<https://terry.ma/cast-for-reddit>

Turn reddit into a slideshow on TV. Supports Chromecast from browser. Android and iOS support

Hearth Cards

<https://terry.ma/hearth.cards>

A HearthStone card browser that works, and works well

AWARDS

- 2005 ACM International Collegiate Programming Contest World Finals: Honorable Mention
- 2004 University Interscholastic League State Computer Science Division 5A State: 1st Place
- 2004 Texas Computer Education Association Programming Competition Division 1 State: 2nd Place