



Terry Ma

Full stack engineer with 14 years of experience building company, teams and products with quality and passion

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EXPERIENCE

Wealthly

Bellevue, WA

Founder

Nov 2020 - Now

- Built and launched Wealthly, a social investing product with more than \$20MM of verified, connected assets at its peak.
- Architected and built the entire backend, frontend, infra, and financial institution integrations.
- Hired and managed a team of engineers, designers, and contractors.
- Built a Plaid equivalent with higher data quality and reliability for Robinhood, Fidelity, Schwab, and other popular investment platforms.
- Raised \$160k in pre-seed funding.
- Built and experimented with Go To Market strategies which led to high sign up conversions at \$0 CAC.

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 / Manager

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.
- 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 our services.
- 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 Flexible Payment Service for Amazon Gift Codes On Demand.
- 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



SKILLS

- Over 14 years of experience with building scalable, distributed systems
- Over 10 years of experience working with AWS
- Over 5 years of experience in hiring, mentoring, and managing high velocity engineering teams
- Fast learner. Possess high degree of bias for action. Deliver results fast with high quality
- Full stack with broad experience in frontend, backend, infra, 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



SIDE 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 with over
1000 stars on Github

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.
Chromecast + Android + iOS

Hearth Cards

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

A HearthStone card browser that
works, and works well



AWARDS

- 2005 ACM International Collegiate Programming Contest World Finalist