

Terry Ma



Experienced team lead passionate about health, fitness, startups, connecting people, and building things.

✉ hi@terry.ma 🏠 <https://terry.ma> 🐙 <https://github.com/terryma> ☎ 512-497-2059



EXPERIENCE

Arivale

Team Lead

Seattle, Washington

Feb 2016 - Present

- 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.com - Amazon Go

Senior Software Development Engineer

Seattle, Washington

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 Analytics

Software Engineer

Kirkland, Washington

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. Presented metrics in an executed dash that was reviewed by Vic Gundotra daily.

Amazon.com - AWS EBS

Software Development Engineer

Seattle, Washington

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.com - AWS Marketplace

Software Development Engineer

Seattle, Washington

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.com - Gift Certificates

Software Development Engineer

Seattle, Washington

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.

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EDUCATION

University of Texas

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

Austin, Texas

Aug 2004 - May 2008

- GPA: 3.6/4.0
- Relevant CS Honor courses:
programming languages, operating systems, system architecture, algorithms and data structures, automata theory, program analysis, logic;sets;and functions



SKILLS

- Over 10 years of experience with building scalable, distributed systems
- Fluent in reading, writing, and conversing Mandarin Chinese
- Incredibly fast learner. Possessing high degree of bias for action. Delivers results fast with high standard for quality. Team player.
- Technical familiarity with the following:

Programming Languages: Java, Python, JavaScript (ES6), Ruby, CoffeeScript, TypeScript, C, C++, Bash

Frameworks/Libraries: Spring, Hibernate, MapReduce, jQuery, Bootstrap, Rails, node.js, AngularJS, threejs, React, React Native, Android, iOS, Docker, Yeoman, Terraform

Persistence Store: Oracle, PostgreSQL, S3, Oracle, DynamoDB, RDS, Redis

IDE/Editor: Vim, Eclipse, Sublime Text, IntelliJIDEA, Android Studio, Xcode, Atom

Cloud Services: AWS EC2, ECS, SWF, EMR, CloudFront, SQS, SNS, Kinesis, Code Deploy

Design Tools: Sketch, Adobe Fireworks, Adobe Photoshop, Gimp



PROJECTS

Vim Multiple Cursors

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

A port of Sublime Text's multiple selection feature to Vim. Over **6000** stars on Github

PokeGoGo

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

A Pokemon Go distributed scanner for discovering nearby Pokemons. Uses geospatial queries in Redis for location lookups and Celery for distributed task management.

Cast for Reddit

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

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

Vim Expand Region

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

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

Drawer

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

A free service competing with pocket/instapaper/readability/kippt. Comprised of a backend REST API powered by Rails, a frontend AngularJS app, and browser extensions in Chrome/Safari/Firefox.

HearthCards

<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**