

Terry Ma



Full-stack engineer passionate about tech, open source, learning, startups, and building usefun™ things.

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



EXPERIENCE

Arivale

Seattle, Washington

Senior Software Development Engineer

Feb 2016 - Present

- Designed and implemented the 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 our staging and production AWS infrastructure and continuous deployment pipeline.
- 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)
- Promoted to tech lead and subsequently manager of the Platform Engineering team. Scaled our micro-services fleet to more than 20 services.
- Reduced monthly AWS cost by thousands of dollars by deep diving into resource usage and implementing cost saving solutions.

Amazon.com - Amazon Go

Seattle, Washington

Software Development Engineer

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

Kirkland, Washington

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

Amazon.com - AWS EBS

Seattle, Washington

Software Development Engineer

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

Seattle, Washington

Software Development Engineer

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

Seattle, Washington

Software Development Engineer

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

Austin, Texas

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

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 in Java
- 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. Works very well with others.
- 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

Cast for Reddit

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

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

HearthCards

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

A HearthStone card browser that works, and works well

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.

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.

Vim Multiple Cursors

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

A port of Sublime Text's multiple selection feature to Vim. Over **5000** stars on Github

Vim Expand Region

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

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



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**