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.
- Built the Logistics Portal and the backend services powering it. Offer tools to assemble, assign, and view inventory of all physical shipments of Arivale (welcome boxes, replacement packages, sample kits, etc)
- Created tools to generate code (Yeoman) and infrastructure (Terraform) for new micro-services.
- Built a crawler farm with Scrapy and Tor to crawl LabCorp's appointment websites to obtain patient blood draw availability information and present that to our pioneers. Built an internal tool with Google maps and AngularJS to allow the Concierge team to book appointment for our customers.
- Designed and built our staging infrastructure. Built the continuous deployment pipeline to allow code push to result in staging and production deployments within seconds, with proper integration tests executed between deployments.

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 developer on new AWS project to drive enterprise customer adoption into the cloud, with heavy 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.

Amazon.com - AWS Marketplace
Seattle, Washington

Software Development Engineer — Aug 2011 - Feb 2012

- Designed and implemented a document based workflow system on top of AWS SWF to handle marketplace product ingestion.
- Designed and implemented an internal RoR 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

- Designed and implemented an internal website using Spring MVC featuring dozens of tools for performing various actions (corporate order placement, data browsing, resend, refund, etc) related to Gift Certificates.
- Core developer on the integration with third party printing vendor for the new generation of Paper Gift Certificates.
- Core developer on the integration with A mazon FPS (Flexible Payment Service) for the A GCOD (Amazon Gift Codes On Demand) web service product.
- Lead developer on designing, implementing, testing, and launching the Facebook Gift Cards product which allows customers to send Amazon Gift Cards through the Facebook platform.

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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:

<u>Programming Languages</u>: Java, JavaScript (ES6), CoffeeScript, Python, Ruby, C, C++, Bash
<u>Frameworks/Libraries</u>: Spring, Hibernate, MapReduce, jQuery, Bootstrap, Rails, node.js, AngularJS, threejs, React, React Native, Android, iOS, Docker, Yeoman, Terraform
<u>Persistence Store</u>: Oracle, PostgreSQL, S3, Oracle, DynamoDB, RDS, Redis
<u>IDE/Editor</u>: Vim, Eclipse, Sublime Text, IntelliJIDEA, Android Studio, Xcode, Atom
<u>Cloud Services</u>: AWS EC2, ECS, SWF, EMR, CloudFront, SQS, SNS, Kinesis, Code Deploy
<u>Design Tools</u>: Sketch, Adobe Fireworks, Adobe Photoshop, Gimp

⭐ PROJECTS

Cast for Reddit
https://terry.ma/cast-for-reddit/

Turn reddit into a slideshow onTV. 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. **5000** stars onGithub

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**