

Ryan Billings

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Education

CARNEGIE MELLON UNIVERSITY
B.S. in Information Systems
Minor in Computer Science
Sept. 2009 - May 2013
Graduated with Honors

GEORGE MASON UNIVERSITY
M.S. in Information Systems
Department of Computer Science
Sept 2016 - December 2019
3.97 GPA

Technology

- Ruby, Rails, Java, Node.js
- Javascript, React, Redux, jQuery
- SQL, MySQL, PostgreSQL
- AWS
- HTML, CSS, SCSS
- Git
- Linux/Unix/Bash
- Jira

Process

- Agile, Scrum
- Continuous integration
- Test-driven development
- Code reviews
- Project management, SDLC
- Object-oriented design
- Domain modeling, ERD

Professional Experience

Software Development Engineer Jan. 2020 - Present
Amazon Web Services Arlington, VA

Software Engineering Manager Nov. 2017 - Aug. 2019
Custom Ink Fairfax, VA

Led a team of 6 engineers in architecting, developing and launching core features for the Design Lab—Custom Ink’s main tool for customers to design t-shirts.

- Led the team in launching a new React/Redux based Design Lab.
 - Resulted in \$20mm in increased annual revenue.
- Deployed aesthetic and performance enhancements to the new Design Lab using React, Redux, Rails, and AWS.
 - Resulted in an additional 10% increase in annual revenue.
- Regularly contributed to the codebase by opening and reviewing pull requests, and encouraged a collaborative code review culture with engineers on the team.
- Wrote automated tests using Mocha and Enzyme, and configured them to run on TravisCI to ensure robust code releases.
- Led the team using Agile best-practices, including running daily stand-ups, sprint planning, backlog grooming, retrospectives and demos.
- Developed engineers through bi-weekly 1:1s, quarterly goals, annual reviews, and team bonding activities.
 - Resulted in increased employee engagement and retention, as measured through company surveys.
- Collaborated with stakeholders, product managers, designers, including quarterly meetings with the CEO and senior leaders.
- Regularly interviewed and hired engineers for the Engineering Department.

Technical Team Lead Nov. 2016 - Nov. 2017
Custom Ink Fairfax, VA

Architected and launched two major projects to improve the customer experience and website security as both a technical and project lead.

- Led, tasked and contributed to a team of 3 engineers using Node.js (Express), React and AWS (Lambda, Beanstalk, SQS, S3) to create a new image processing system that allows customers to upload and manipulate their own artwork.
 - Resulted in 2x faster transactions and reduced server load.
- Led a 6-month cross-department project to overhaul CustomInk.com to meet the highest standards of Payment Card Industry (PCI) compliance.
- Instrumented and analyzed application metrics using NewRelic, Cloudwatch, and Google Analytics.

Professional Experience, continued

Software Engineer

July 2013 - Nov. 2016

Custom Ink

Fairfax, VA

Developed key customer-facing features for the Design Lab and shopping cart.

- Lead Javascript and Rails contributor on a project to allow customers to get a quote while designing their product, and added automated test coverage with Mocha, Minitest, and Jenkins.
 - Resulted in at least \$2mm increase in annual revenue.
- Lead contributor on a project that expanded the product types that customers could design on, using Agile practices to go from a prototype to MVP.
- Led Custom Ink's technical integration with Pearup, a start-up that enabled customers to add corporate sponsorships to their products for the first time.
- Designed database models, built RESTful web services, publish APIs, perform database migrations with MySQL, and implement backend systems using Ruby on Rails to support new additions to the website.

Independent Consultant

Dec. 2015 - May 2018

OSIBeyond

Bethesda, MD

- Worked directly with CEO and built a new customer-facing website for OSIBeyond.
- Used Javascript to build a single page application with a Rails backend.
- Improved website search rankings by following SEO best practices.

Teaching Assistant

Jan. 2012 - May 2013

Carnegie Mellon University

Pittsburgh, PA

Software Engineering Intern

May - August 2012

Next Jump

Cambridge, MA

Software Engineering Intern

May - Aug. 2011

Akamai Technologies

Cambridge, MA

Information Technology Intern

May - Aug. 2010

Staples Inc.

Westborough, MA