

PROFILE

I'm an experienced web developer who has worked on projects big and small, from large teams to solo efforts across a variety of technologies. Technologies of all types interest me but what motivates me most of all is seeing people use what I built and striving to find ways to improve their experience.

EXPERIENCE

Software Engineer at Rocket Mortgage – 2019-Present

Detroit, MI

I work with a wonderful group of people helping clients realize their dream of owning their own home. Maintaining and building a diverse network of applications that support clients throughout the process of originating a mortgage. Additionally guiding architecture, developing standards and mentoring other engineers.

- **Major language upgrades for complex application** - took the initiative to pursue major language upgrades on three separate occasions. Upgrades were deemed "impossible" by other engineers and architects. Incrementally improved the process so each subsequent upgrade took less time and effort. Identified unusual workarounds to get the upgrades accomplished within limited constraints.
- **Lead large scale upgrade of over 100 repositories** - took on a project to upgrade a number (30+) of repositories which needed changes to their CI pipelines. Realized that list was incomplete so built a tool in Python to find additional repositories in need of upgrading. Expanded upon tool to scan repositories and generate realtime status report. Created detailed documentation on how to upgrade the variety of repositories, then lead a team of developers to quickly fan out and address the upgrades
- **Facilitated Adoption of Technologies and Techniques** - demonstrated, encouraged and mentored teammates in adopting useful technologies. Technologies like Gherkin for automated testing, mocking services with Mountebank for automated testing and development, using Docker for development and deployment and prototyping Single Page Applications (SPA) in multiple frameworks.
- **Prototyped New Solutions** - developed additional prototypes to help delivery high quality changes. Developed a prototype to connect accessibility scanning with automated testing. Created a test suite using Cypress to validate third party web components and catch regressions reducing manual verification. Built out monitoring dashboards in Splunk to give better visibility to business partners when releasing new features.

Senior Developer at E7 Solutions, LLC – 2014-2018

Troy, MI

I worked on many different custom software projects at E7. On some projects I assisted with development and architecture, on other projects I oversaw the entire process and reviewed work directly with the client. Some highlights of projects I worked on.

- **Shopify E-Commerce App** - built an app for the Shopify marketplace to allow a client's customers to integrate their Shopify stores with the client's marketplace. Planned, architected and developed the application using React and Django. Leveraged AWS services like RDS, SQS and Elastic Beanstalk.
- **Dental E-Commerce** - rapidly developed a consumer facing dental e-commerce platform. An Angular v1 application with a RESTful backend written in Python using the Django framework backed by PostgreSQL. Pivoted development quickly to meet client's changing needs.
- **E-Learning Courses and Editor** - built several Angular v1 applications and SCORM modules. Additionally developed a custom course editor using Electron to allow the client to build and test their own courses.
- **Financial E-Learning** - developed a custom application in Angular v1 so the client could promote continued education and innovation within their organization. Had to do a bit of experimentation due to the requirement that the application run on Sharepoint 2010.
- **Automotive Manufacturing** - several applications supporting a client in the automotive industry. Primarily an Angular v1 application with several RESTful services written in Java utilizing the Spring framework with a MySQL backend.
- **Automotive E-Learning** - developed several informational Angular v1 sites for a client in the automotive industry. The client wished to manage content changes through the HTML so we leveraged Angular's Directives to allow this without disrupting the features they had requested. Later enhanced the application by utilizing the Sharepoint 2016 search api and translating search results to pages within the Angular v1 application.

Application Development Manager at North American Bancard – 2012-2014

Troy, MI

I worked closely with upper management during this time to develop structure for the growing IT development department. I helped define and implement the structure and processes that enabled the development teams to work together and integrate with the rest of the organization. Below are some additional highlights from that time period.

- Directly managed a team of 10 developers with differing skill sets.
- Oversaw more than 216 releases of more than 20 applications.
- Added new tools and procedures to the team's development cycle. The tools, procedures and lessons learned were later used to set standard procedures for the rest of the development group.
- In addition to overseeing application development and release I acted as both a Project Manager and Business Analyst due to shortages in those areas.
- Heavily involved in an aggressive IT hiring spree. I developed a tool utilizing Django to track candidates and interviews along with new procedures that helped everyone keep up with the influx.

Tools Used: Jira, Confluence, Crucible, Stash, Bamboo, PHP, GIT, Subversion, Python, Apache, HTML, Javascript, Symfony2, Composer and PostgreSQL.

Web Application Developer at North American Bancard – 2009-2012

Troy, MI

In this role I built, and often architected, several applications to support external and internal objectives. During this process I worked directly with various departments inside the organization since we did not have Business Analysts or Project Managers at that time. Below are some key achievements from this period.

- Improved communication and collaboration by introducing Redmine, a project management application, into our development routine which helped documentation and quality control. This reduced duplicated effort saving valuable time and resources. (Prior to this there was no ticketing system.)
- Created a file import management suite in Python to organize our many data imports and bring early warning of failures to IT's attention.
- Helped to migrate application deployment to a consistent, subversion based version control system.
- Helped to train coworkers on using development tools including but not limited to: subversion, netbeans, xdebug, and webgrind.
- Deployed and managed a Jenkins continuous integration server to ensure code quality. Trained coworkers on automated unit and integration testing.

Tools Used: PHP, GIT, Subversion, Python, Ruby, PostgreSQL, MySQL, MS SQL, Apache, HTML, CSS, Javascript, Drupal, Selenium and Fabric.

Web Application Developer at Active Media Architects – 2007-2009

St Clair Shores, MI - (Active Media Architects was acquired by Salesforce sometime after 2009)

My duties included but were not limited to the following: Setup and administration of company and client servers. Designing, implementing, maintaining, and optimizing applications fashioned to meet specific client needs and desires. Collaboration with project managers, sales teams, and designers on a daily basis to help deliver projects on time and on or under budget. Providing technical leadership to junior developers helping them learn solid scripting skills, good application design, and securing systems.

- Played key role in developing, launching, and enhancing over twenty distinct projects.
- Routinely maintained and optimized aging databases. Optimized an old database enabling the server to handle two to three times the original traffic. Optimized another old database allowing the server to respond in under a second instead of the 10-12 seconds it was originally using.
- Ported a maintenance script from PEAR_DB to MySQLi reducing execution time 80% and also saving valuable data.
- Introduced distributed source control (GIT) to track modifications across systems easing maintainability across all the client's servers.
- Helped build company framework streamlining development, reducing repetition, and quickening fixes.

Tools Used: PHP, GIT, Subversion, Python, MySQL, Apache, HTML and Javascript

Web Application Developer at Trademark Productions – 2006-2007

Royal Oak, MI

I met and dealt with clients directly translating what they wanted into reality. Worked within a collaborative environment designing and developing custom applications. Engineered customized features and modules for new applications; devised enhancements and updates for existing application suites.

- As a front end developer, wrote compliant xHTML, CSS, and Javascript.
- As an application developer, scoped and developed custom applications in PHP and MySQL.
- Developed administration system which was reused for many projects saving valuable company time and resources.
- As a client liaison, translated what they wanted into reality and explained what technologies we used and how it helped them.
- Developed a system for a local wine distributor to connect consumers, suppliers, and retailers with the company and their products.
- Designed, developed and optimized a site which connected patients with deals on prescription medicine that grew to over 11,000 members.

Tools Used: PHP, Mysql, Apache, HTML, CSS and Javascript