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Languages and Technologies

- **Languages**: Typescript, Javascript, SQL, C#, Bash
- **Frameworks**: NodeJS, React, Apollo, Express, Mocha, Sinon, .NET Core, Artillery.io
- **Platforms**: AWS, Github Actions, CircleCI, Heroku, Google Vision
- **Tools**: PostgreSQL, RabbitMQ, Webpack, Docker, Vagrant, Git, SQL Server 2016, SQLite, Redis

Employment

Internal Tools Lead   **Flip.lease**   **July 2019 - March 2020**

- Lead development of internal tooling for developers and Customer Service, Operations, and Business Development employees.
- Designed a listing pricing algorithm to automate the repricing of marketed listings.
- Created Q&A system for listers to manage questions asked by prospective tenants.
- Architected syndication feed system, kept listings updated between 5 platforms.
- Developed duplicate image detection system to protect viewers from scam listers.
- Implemented object recognition to automatically order apartments photos based on content.
- Created and managed full CI/CD system on top of Github Actions
- Designed an automated service worker dispatch system to automatically clean newly acquired apartments and pay service workers.

Senior Software Engineer   **Third Iron**   **October 2017 - July 2019**

- Managed scaling server infrastructure to handle rapidly increasing customer base.
- Created a load testing tool based on artillery.io to stage experiments on live deployed infrastructure.
- Used experiments to determine efficiency improvements to NodeJS backends and Postgresql databases.
- Migrated several production systems to Typescript and steady migration strategies for others.
- Developed CircleCI 2.0 infrastructure for CI/CD of live applications and a shared private Docker build image.
- Managed AWS infrastructure, including Opsworks recipes and EC2 tooling.
- Wrote metadata intake systems for CrossRef and Pubmed.
- Orchestrated deployments and wrote tooling to automate creating release notes and warnings.

Software Lead   **Spreetail**   **May 2015 - June 2017**

- Directed day to day operations of Business Development software creation and maintenance.
- Created and taught classes on technical and non-technical subjects to departments across Spreetail.
- Vetted, architected, and prioritized new project proposals from BD staff and engineers.
- Led department to complete "Dead Code" objective, removing 28 deprecated monthly.
- Designed and led development of Catalog System.
  - Distributed microservice architecture using RabbitMQ for cross-service communication.
  - Designed with high redundancy, high logging visibility, and seamless scalability in mind.
  - Reduced average price update time from 3 hours to 2 minutes on some marketplaces.

Software Engineer   **Spreetail**   **May 2015 - June 2017**

 - Reverse engineered Amazon MWS API to allow for item specific field generation, reducing errors.
 - Designed CrossLister, a cross-marketplace item posting program (Amazon, Walmart, eBay, and Sears). Saved every content creator in the company 2 hours of work daily.
 - Led hackathon team to create PAT (Pricing Automation Tool), an intelligent listing repricer.

Product Manager (Consultant)   **Design Studio (LI-COR)**   **August 2014 – May 2015**

 - Created digital lab notebook tailored to fit the needs of scientists still using paper notebooks.
 - Coordinated and planned efforts with 2 other independently led teams (LI-COR and Don't Panic Labs).
 - Achieved 90% client satisfaction first release, changed work direction to receive 100% every release after.

Software Consultant   **Sheldon Museum of Art**   **April 2014 – August 2014**

 - Designed and created virtual tour mobile web app for Sheldon Sculpture Garden.
   - Used GPS to provide relevant exhibit photography and audio tours.
   - Integrated with Google Streetview tours of Sculpture Garden.
   - Created content management system for museum workers to update site without coding.

Software Engineer, Intern   **Garmin (Aviation)**   **May 2013 - August 2013**

 - Migrated GIA 1000 (aircraft control systems) code to library for future device use.
 - Wrote extensive tests to achieve 100% (statement and branch) code coverage on all migrated libraries.
 - Edited relevant sections in pilot's manual and wrote documentation to meet FAA standards.

Software Engineer, Intern   **Thomson Reuters (FindLaw)**   **May 2012 - August 2012**

 - Developed Java code for internal customer operations (roughly 800 employee users)
 - Wrote server job monitors in OpenReports with SQL to alert DBAs when jobs failed or were over time.
 - Designed an analytics system to better optomize customer operations workflows (based around Splunk).

Education

Lincoln, NE   **University of Nebraska, Lincoln**   **August 2011 – May 2015**

 - B.S.E. in Computer Engineering with Minor in Business. 153 credit hours. GPA: 3.8
 - Jeffrey Raikes School of Computer Science and Business (cohort of 20) and University Honors.