

Zachary Godfrey

godfrey.zach@gmail.com • (904) 316-5108

Senior Software Engineer with 12+ years of experience building web applications in a variety of technology stacks. Focused on building backend services, web APIs, and asynchronous data pipelines.

Senior Software Engineer, The Knot Worldwide, Aug 2021 - Present

- **Technologies:** Node, TypeScript, GraphQL, Elasticsearch / OpenSearch, Redis, RabbitMQ
- Built and maintained a GraphQL API that powers the marketplace search platform which averages 9M+ requests per day with an average response time of 60ms
- Built a data pipeline with RabbitMQ so multiple systems can send asynchronous updates to our OpenSearch database
- Performed schema updates and data migrations on evolving OpenSearch documents as business requirements changed
- Became a subject matter expert in our complex sorting algorithm for determining vendor order in search results

Senior Software Engineer, BAM Technologies, Oct 2018 - Jul 2021

- **Technologies:** C#, MSSQL, Node, TypeScript, PostgreSQL, Angular
- **AWS Services:** Lambda, S3, RDS, Elasticsearch, Step Functions, SES
- Transitioned an existing government web application away from a Microsoft technology stack (C#, MSSQL) onto a platform-agnostic technology stack (Angular, TypeScript, NodeJS, PostgreSQL) to prevent vendor lock-in and enable a transition onto cloud infrastructure
- Facilitated the transition of the web application out of a government datacenter and into AWS GovCloud
- Developed, deployed, and maintained the new web application making use of the AWS services listed above
- Implemented an ETL process for importing and processing data from over 200 heterogeneous data sources
- Improved overall performance of the data import process and reduced running time from over 8 hours down to under 12 minutes
- Moved search data from the relational database into Elasticsearch to reduce query times from over 30 seconds down to below 500 milliseconds
- Regularly conducted meetings with government stakeholders to demonstrate new features, gather feedback, and propose future changes
- Met with non-government partner companies (and often their third-party development companies) to assist with getting their data into our system

Application Developer, Oyova Software, Oct 2017 - Oct 2018

- **Technologies:** C#, ASP.NET MVC and WebAPI, Dapper ORM, jQuery
- Designed, developed, and tested new features and bug fixes for clients' websites
- Communicated directly with clients daily via email and phone to gather requirements, discuss project timelines, and provide status updates

Application Developer, MECLABS, Nov 2013 - Oct 2017

- **Technologies:** C#, ASP.NET MVC and WebAPI, Entity Framework, MSSQL, Angular, PHP
- Designed, developed, tested, documented, and maintained the company's core intranet application
- Conducted regular meetings with stakeholders to gather new requirements, provide status updates, and demo new features
- Lead training workshops to teach employees how to replace their previous workflows with the intranet application my team built
- Developed and maintained pages for several clients including the New York Times
- Ran A/B split tests on clients' websites

Quality Assurance Specialist, MECLABS, Jan 2013 - Nov 2013

- **Technologies:** Java, Selenium, WebDriver
- Performed manual user-acceptance testing of web applications
- Audited the configuration of site analytics tools and A/B split tests
- Created an automated testing tool and wrote a suite of automated user-acceptance tests