

www.linkedin.com/in/gainesagregory
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Experience

Software Engineer **Google** **July 2021**

Software Engineer **Amazon Web Services** **July 2020**

- Worked with multiple AWS Cloud technologies to build serverless applications to save over \$1.5M annually compared to traditional servers.
- Converted Rest APIs to GraphQL when appropriate to save hours of computational, network, and bandwidth consumption.
- Built microservices with over 90% test coverage to scale for millions of customers in different regions with an 181ms average request time.
- Contributed to building responsive and accessible Micro Frontends with React to speed up deployments without affecting the workflow of other teams working on the same application.
- Wrote multiple technical documents for software documentation, feature planning, threat models, operational excellence, and correction of errors.
- Added detailed logging to back-end and front-end to gather metrics on how customers use our sites to inform future product decisions.

Software Engineer **Air Care Companies** **April 2019 – October 2019**

- Redesigned software architecture for over an overall 80% speed increase.
- Wrote and managed multiple REST APIs to make expandable services.
- Managed multiple back-ends and databases with PHP, SQL, and MSSQL.
- Worked efficiently in an Agile team.
- Built front-end pages in HTML5, CSS, and JavaScript.
- Prototyped a mobile app with C#, Xamarin, and Java.

Software Engineer **Hamilton Multimedia LLC** **March 2017 – March 2020**

- Designed websites with an Agile methodology.
- Built sites using Bootstrap and JavaScript for a responsive experience.
- Followed secure and best practices to increase website and database integrity.
- Debugged sites to find potential bugs to increase customer satisfaction and business.
- Handled database and back-end services with PHP and MYSQL

Professional Projects

AWS Internal Sites - <https://aws.amazon.com/>

- Internal sites that transfers terabytes of data and scales to millions of users.
- Has an 90% uptime with accessibility and i18n to remove usability barriers.
- Covered with unit tests, integration tests, and Chaos engineering.

My Mold Detective Customer Portal, E-Commerce - <https://customers.mymolddetective.com/>

- A dashboard that allows customers to manage or place orders with an expandable REST API to make future product integrations easy.

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My Allergy Detective, E-Commerce - <https://myallergydetective.com/>

- WordPress site customized with HTML, CSS, and JavaScript that shows product features and information for easy access and purchase.

General Griggs Website, Law Firm - <https://www.geraldagriggs.com/>

- A professional portfolio developed with PHP, CodeIgniter, and Bootstrap to create a responsive experience for desktop and mobile.

True Quest Realty, Property Management - <http://www.truequestrealty.com/management/>

- Management site with a content management system that allows admins to login and add properties, contact clients and send out mass email. Built with PHP, CodeIgniter, and SQL.

Personal Projects

Portfolio and Blog - <https://www.gregorygaines.com/>, <https://www.gregorygaines.com/blog>

- Portfolio and blog created with modern technologies namely React, Node.js, MongoDB, NGINX, and Express to showcase my experience and technical write-ups about computer science.

Gameboy Emulator - <https://github.com/gregorygaines/gBoy/>

- A reverse engineering of the Gameboy hardware written in Java.
- Emulates the Z80 CPU instruction set, LCD, and other subsystems.
- Able to run Gameboy software on any platform that can run Java.

Unbeatable Tic-Tac-Toe AI - <https://www.tictactoe.gregei.com/>

- Unbeatable Tic-Tac-Toe AI written in JavaScript that uses a Decision tree to remain unbeatable.

Skills

- **Programming Languages:** Java; C++; C#; .NET; SQL; MSSQL; HTML5; CSS / SASS / SCSS; Golang; PHP; JavaScript; TypeScript; Android
- **Frameworks / Libraries:** React; Angular; Express; Node.JS; CodeIgniter; Laravel; Express; WordPress; Bootstrap; jQuery; Ajax; React; JavaFX; Java Swing; Redux
- **Back-end Technologies:** Apache; Linux; Nginx; GraphQL; MongoDB; MySQL; Elasticsearch; Redis Cache; AWS S3; AWS Lambda; AWS EC2; DynamoDB; ElasticCache; CloudFront; API Gateway
- **Tools / Methodologies:** IntelliJ; Visual Studio; Android Studio; CLion; Jira; Git; SSH; SourceTree; NPM; Gradle; Maven; Continuous Development/Delivery/Integration; Agil; Waterfall; Scrum