

# SAMUEL GRAYSON

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## PROFESSIONAL SUMMARY

Highly motivated technology professional successfully delivering solutions for complex problems. Full-Stack development experiences leveraging Javascript frameworks such as React, Angular, and Express. Multiple experiences creating and implementing robust architecture designs for AWS Cloud solutions and migrations. Data platform development using Python and AWS solutions like AWS Glue. Experience in many different industries including Automotive, Insurance, and Financial.

## SKILLS

- |                              |                   |                             |
|------------------------------|-------------------|-----------------------------|
| → AWS Cloud Infrastructure   | → AWS API Gateway | → Jenkins                   |
| → AWS Lambda                 | → AWS Console     | → Relational DB             |
| → AWS DynamoDB               | → AWS Cloudwatch  | → Non-Relational DB         |
| → AWS RDS                    | → AWS S3          | → Kafka                     |
| → AWS SNS                    | → Python          | → Docker                    |
| → AWS Cloudformation         | → React.js        | → SSO & JWT Management      |
| → AWS CodeBuild/CodePipeline | → Angular.js      | → Microservice Architecture |
| → AWS IAM                    | → TypeScript.ts   | → NPM                       |
| → AWS Glue                   | → Node.js         | → GIT                       |
| → AWS Athena                 | → Express.js      | → Agile Methodologies       |

## CERTIFICATIONS

2019

*Associate Cloud Engineer Certification*

**Google** - Atlanta, GA

## WORK HISTORY

August 2018 - Current

*Consultant - Associate II | Pariveda Solutions | Atlanta, GA*

*Automotive Industry Client*

- Enhanced full stack admin application hosted in AWS Elastic Beanstalk using Express.js, React.js, and other AWS resources.
- Enhancements included:
  - Managing permissions by purchasing customers
  - Supporting feature tags for customers
  - Migrating microservice javascript technology to AWS Lambda and AWS API.
  - Visual enhancements to ease user experience
- Migrated customer account API endpoints to a Node.js/Express.js application hosted in the AWS Cloud.
  - With all the necessary endpoints moved over, we then sunset the old API so the client could turn off redundant resources.
- Lead effort to migrate payment information API created in hapi.js and hosted in EC2 to a serverless AWS lambda/API-gateway solution.
  - Participated in discussions with architectural leads at the client to agree on an AWS solution.

- Created architecture diagram to assist the team in understanding the overall design from a high level.
- Developed solution in typescript to map old API request to new expected API contract.
- Introduced typedoc to assist with application documentation.
- Created lambda solution, triggered by cloudwatch logs, to stream logs to Splunk for further analysis.
- Lead architectural review meeting with team to create an “orchestration” layer, hosted in Elastic Beanstalk, in front of Lambda API to manage data aggregation between different APIs.
- Created AWS CodeBuild cloudformation templates to empower deployment process through automation.
- Created AWS CodePipeline cloudformation templates to handle deployments to different environments.
- Implemented postman integration testing to ensure stability of the API.
- Integrated postman tests with CodePipeline using a separate lambda to automate the testing process during deployments.
- Coached team in Agile processes and ceremonies.
- Coached team in various AWS technologies such as Lambda, CloudFormation, and more.
- Deployed application to production successfully, test users currently consuming the new API.

### Automotive Industry Client

- Lead team of developers from start to finish to deliver an AWS solution centered around AWS Lambda, RDS, CloudFormation, Route 53, and other aws resources.
  - Recognized a cost saver by converting clients geolocation queries from Google APIs to a custom AWS cloud solution.
  - Created an early POC to prove to the business that the solution was possible.
  - Presented multiple options to client architectural leads and business stakeholders at different checkpoints throughout the development process.
  - Created system architecture documentation and supplemental material to support the benefits of our AWS cloud solution.
  - Worked with multiple teams to create a deployment strategy using cloudformation and jenkins.
  - Implemented and executed load testing and performance testing plans to ensure application could handle maximum traffic.
  - Ensured a highly available, fault tolerant solution by creating a cross-region deployment strategy. This included cross-region replication of database, lambdas, and other important aws resources.
  - Successfully deployed and supported the application past production deployment. Leveraged alerts, monitoring, and other tools in CloudWatch to create robust production support.
  - Achieved a 95% accuracy rate against GoogleMaps API for geolocation queries such as IP to Latitude and Longitude and Zipcode to Latitude and Longitude.
  - Analyzed application during process to ensure no PII was being stored inappropriately.
  - Maintained an agile development cycle throughout the creation and support of the application.
  - Worked closely with business stakeholders to verify the accuracy and performance required by the application.
- Produced early architecture diagrams, support materials, and presentation for the client for a simple digital asset management solution created in AWS cloud leveraging S3 and other resources.
  - Recognized the client had many pain points with cost and usability with current application.
  - Presented potential solutions to business stakeholders and architecture leads.
  - Analyzed the cost impact of a React/Express.js application hosted in EC2, fetching large amounts of data from S3 on a daily basis.
  - Explained the cost benefit between a custom cloud solution and third-party solution.
  - Successfully received a contract from the business.
- Maintained professional relationships with team members at the client.
- Coached and supported team members new to consulting, development, and cloud solutions.

## Financial Industry Client

- Developed a configurable data streaming pipeline entirely in AWS to rapidly ingest large amounts of data from multiple external sources. The data was immediately queryable using AWS Athena and Redshift by internal data engineers to deliver crucial business insights for their financial institution.
- The platform contained a robust operational data log in a relational structure leveraging AWS Aurora with accessible data for the internal operations team to monitor the platform in real-time.
- Delivered a 100% asynchronous event driven platform.
  - each event past through the system was delivered entirely asynchronously. From the ingestion of data, to the ETL work initiated on each dataset.
  - There was a constant “stream” of data based on configuration setup by internal data engineers. This meant that at any given time, there could be X number of ingestions happening at once in our scalable AWS platform.

APR 2016 - August 2018

### *Software Developer | Insight Global | Atlanta, GA*

- Led front end development on an enterprise software suite from the ground up using TypeScript, JavaScript, Angular 2, Angular CLI, SCSS, and other front end technologies.
- Worked closely with BAs, POs, and UX to accomplish tasks and directly receive feedback from end users to ensure a quality product.
- Developed Angular 2 application using best practices in structure, naming convention, and code to increase reusability and efficiency.
- Established single sign on with Microsoft Active Directory using Keycloak and JWT management.
- Worked closely with QA team to ensure quality and stability of front end application and keep QA environment up to date with latest code.
- Pushed for continuous integration using Jenkins to deliver features more frequently and automate deployment.
- Used RESTful services to implement business logic and data integration to the front end.
- Provided mentoring and technical training for new employees to get them caught up on Angular 4.0.
- Led a team of developers in taking over third party project, implemented new features, and cleaned up previous content while maintaining an Agile process.
- Leveraged Kafka for sending information between multiple business applications and microservices.
- Developed several Kafka producers and consumers to migrate data from multiple databases.
- Implemented receipt OCR using Google Vision API to parse uploaded receipt information for a user.
- Hands on experience with Spring and Spring Boot using the framework to decrease development time and increase modularity through dependency injection.
- Leverage Hibernate to query database to store information and return information for use in the front-end.
- Maintained and implemented suite of custom directives and components in Angular 4 including: form validation, custom table, dynamic forms, page highlighting, and more.
- Communication with open systems team to ensure stable deployments.
- Introduced gitflow workflow with feature branching to help manage stable releases.

OCT 2015 - MAR 2016

### *Front End Developer | Good Done Great | Charleston, SC*

- Wrote maintainable and extensible code in an agile environment.
- Modified existing software to correct errors, upgrade interfaces and improve performance.
- Updated and created new views for DonateWell.com UI using Angular 1.5.
- Fixed active bugs in Javascript, CSS, and more.
- Collaborated on future features for DonateWell software.

## EDUCATION

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2015

*Comprehensive Coding School: Front End Development*

**The Iron Yard** - Charleston, SC

2014

*BBA: Marketing*

**Mercer University** - Macon, GA