

James A. Gibson

Software Engineer and Architect

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Profile

With a decade of experience in software, predominantly within the health care industry focusing on genomics, I specialize in building software that emphasizes enterprise architecture and systems based on microservices in AWS. My work is conducted in regulatory environments, including HIPAA, CLIA, CAP, and HITRUST. I am passionate about working in lean and effective small teams. Presently, I lead a platform engineering team that comprises backend engineers, emphasizing a DevOps culture to serve feature-focused development units. My academic background in philosophy has been instrumental in adopting domain-driven design principles for software development. I am proficient in Python and HashiCorp Configuration Language. Less frequently I write bash, or work with JavaScript and Go as when using or reviewing another's work.

Experience

2021–Present **Software Engineering Lead, Genomic Life, La Jolla, CA**

- Tech Stack: AWS, Terraform, Python, Kafka, Docker, Serverless Framework, Auth0
- Built foundational elements as the first engineer reporting to the head of engineering. Assumed roles in DevOps, software architecture, and backend software engineering while leading a team of four.
- As a leader, emphasized team member growth, continuous learning, software skill enhancement including soft skills, and improved collaboration. Led book and article discussions as well.
- Developed CI/CD leveraging GitHub Actions + OIDC and IAM roles.
- Developed AWS user management for internal employees and external contractors.
- Developed AWS integration with AWS Private Certificate Authority and IAM Roles Anywhere.
- Designed AWS account segregation for the AWS Organization for the business.
- Addressed thousands of control failures configured into Control Tower as reported in Security Hub.
- Designed a streaming platform using MSK, covering means of authentication and authorization, processes for reliable message delivery, standards for topics and messages, and executed producers and consumers' writing and testing.
- Designed and implemented a workflow (consists of three services) for data processing through AWS MSK so that producers did not need to be written every time a new topic needs to be created. Built with Docker, Python, AWS Lambda, DynamoDB, SQS, and JSONSchema.
- Design and implementation of services for Salesforce interactions.
- Design, implemented, and tested writer services for NoSQL databases.
- Engineered and tested a RESTful API using Python, FastAPI, and RDS Aurora Serverless MySQL to power the primary customer interface for "member" data.
- Rebuilt the entire development team's infrastructure in three days, including data migration and testing.
- Hundreds of functional, behavioral, integration tests and some load testing.

- 2020–2021 **Founder**, *Insigne*, Little Rock, AR
- Innovated processes to refine job recruiting based on specialization certificates, focusing on companies like AWS, Microsoft, and HashiCorp.
 - Pioneered privacy rights for users while enabling recruiters and HR to efficiently identify competent candidates, resulting in reduced costs.
- 2019 **Senior Software Engineer**, *Invitae*, San Francisco, CA
- Tech Stack: Python, Django, Docker
 - Addressed bug fixes and refactored code to accommodate workflow team requirements.
 - Transitioned from the role due to personal circumstances after five weeks.
- 2015–2019 **Senior Software Engineer**, *Human Longevity Inc*, La Jolla, CA
- Tech Stack: AWS, C#, JavaScript, Python, Terraform, Vault, Docker, Kubernetes, Serverless Framework
 - Began as a Software Development Engineer in Test, focusing on testing secondary analysis workflows based on genomic data and various APIs.
 - Transitioned into development, designing data ingestion systems on AWS, Docker, and Kubernetes for petabyte scale data.
 - Design and built a data lake and API interface catering to machine learning experts and data scientists, including building a data catalogue to query the location of data and its properties.
- 2014–2015 **Junior Software Engineer**, *topLingo*, Irvine, CA
- Tech Stack: .NET MVC C#, JavaScript, jQuery, Bootstrap, Objective-C.
 - Began as an intern after teaching myself to code after six months.
 - Initial work with on HTML and CSS, and VB Script.
 - Worked on websites for clients including Disney Auction.
 - Refactored a massively broken iPhone application built by another company.

Education

- 2013 **M.A. Philosophy**, *University of California, Irvine*
- 2010 **M.A. Philosophy**, *Western Michigan University*
- 2004 **B.A. Philosophy**, *Biola University*

References

Available upon request.