



# Diversity Cyber Council

Illuminating Possibilities

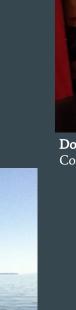
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Spotlight App Platform - Proposed Architecture
June 23, 2022





Scott Lew Cloud Architect



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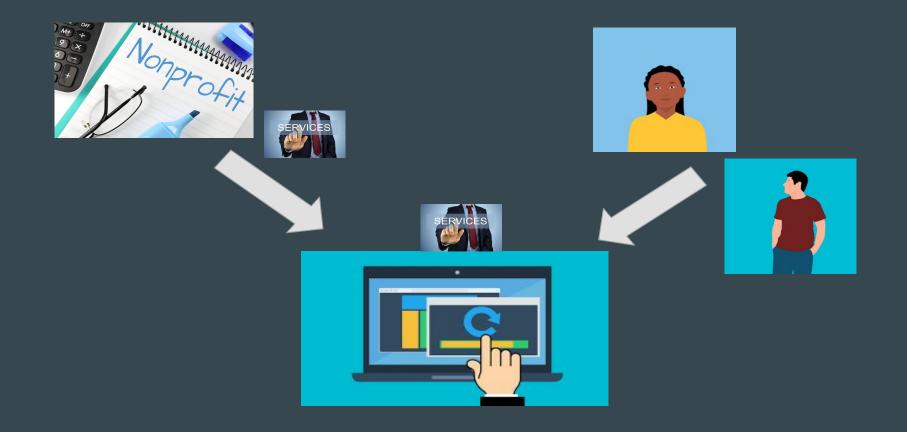


**Marc Boudreau** Principal Engineer

#### Presented by:

The Global Variables https://github.com/IlluminatePossibilities/The Global Variables

# **Proposed Solution**



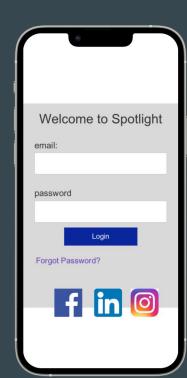
### Convenient, Accessible, Usable

SSO Login

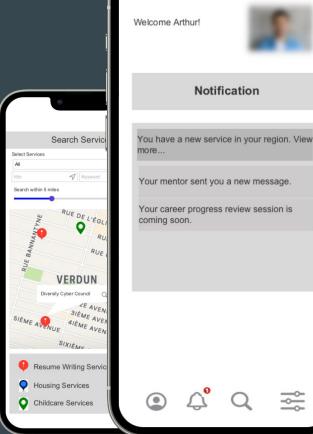
Rich-text editor

Search services

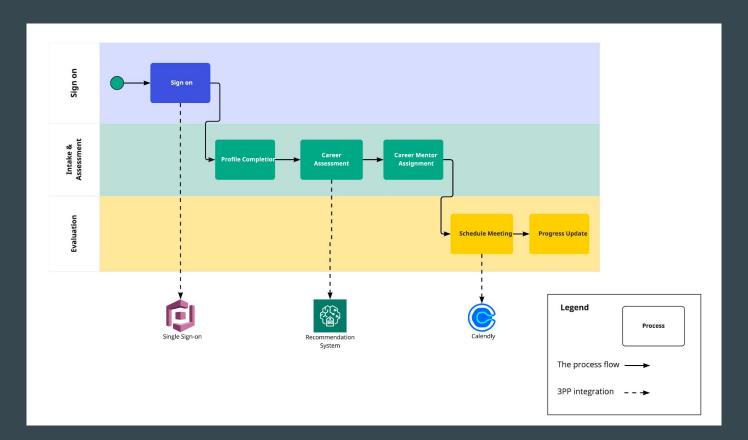
Map

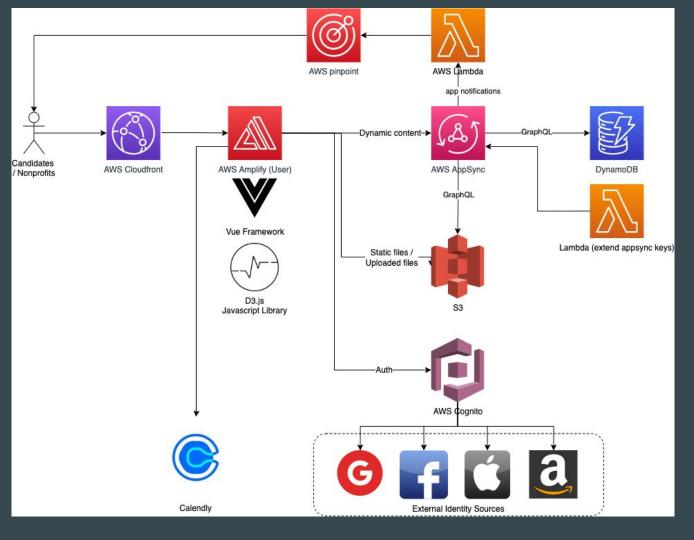




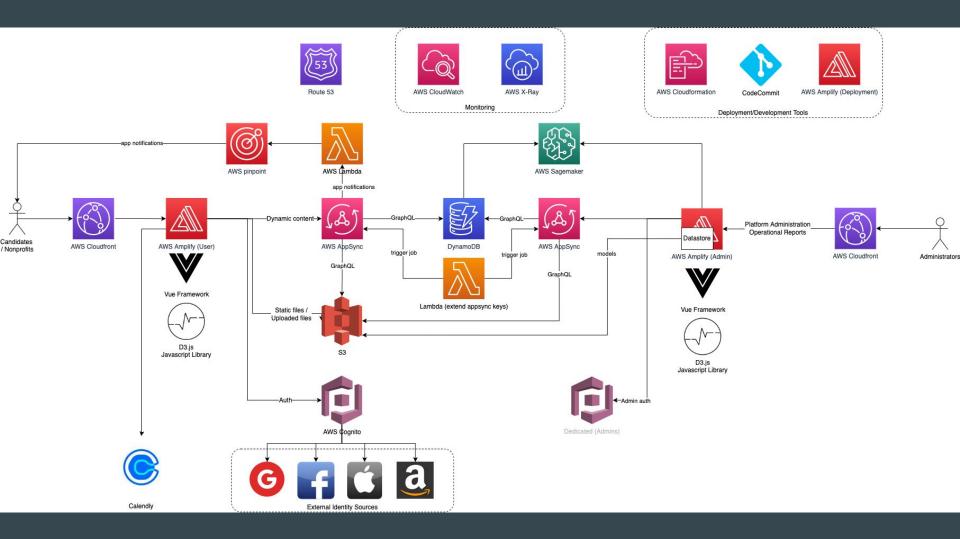


### Smarter Recommendations, Effective Collaboration

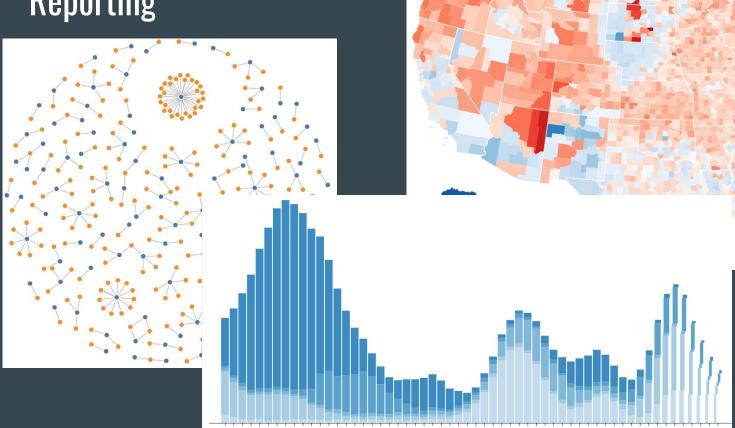




Cost-Effective, Serverless Faster Deployment



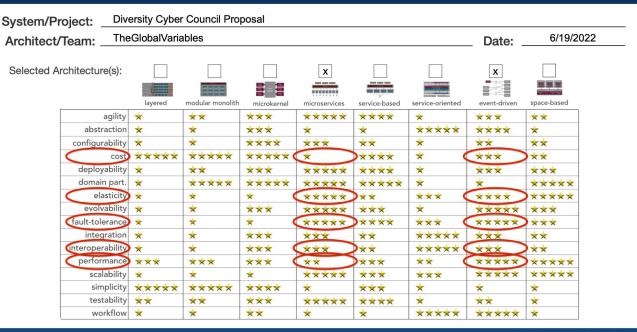
## Reporting



### **Prioritized Architectural Characteristics**

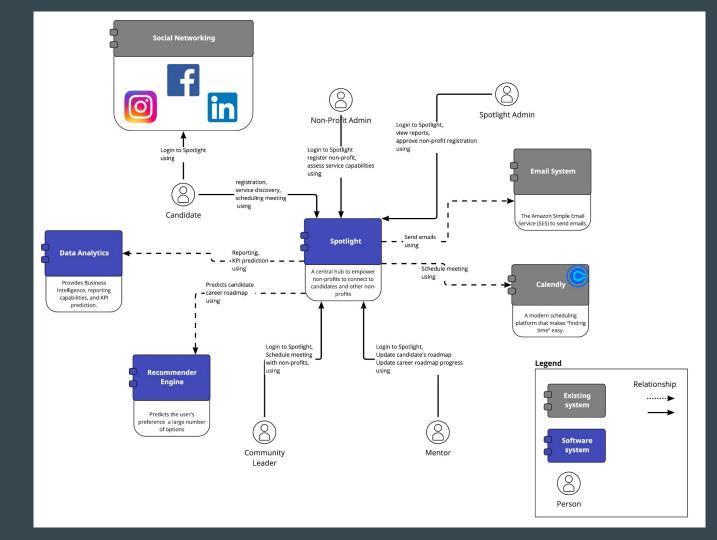
- Usability
- Responsiveness
- Feasibility
- Elasticity
- Security
- Privacy
- Interoperability
- Data Integrity

#### **Architecture Styles Worksheet**

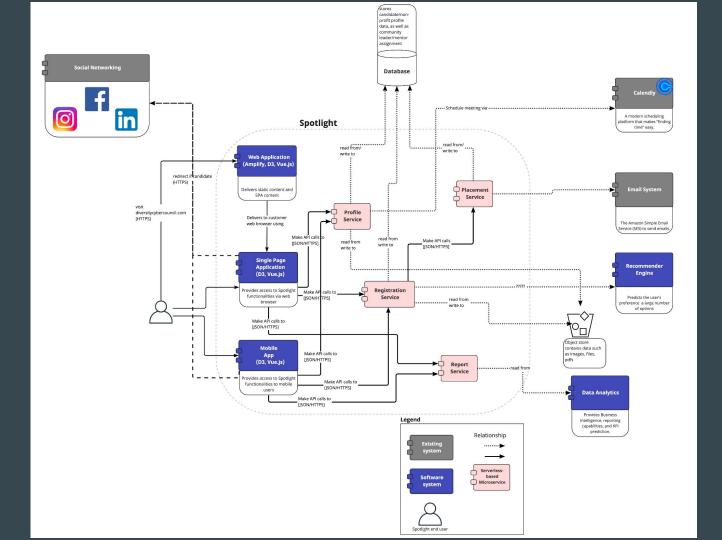


Created by Mark Richards, DeveloperToArchitect.com

### Context Diagram



### Container Diagram



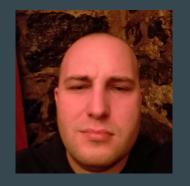
### **Architecture Decision Records**

- ADR 0001 Choice of Serverless
- ADR 0002 Choice of Cloud Provider
- ADR 0003 Process Modeling
- ADR 0004 Observability
- ADR 0005 Amplify
- ADR 0006 Markdown

### Major Risks

- Vendor Lock-in
  - O AWS Amplify and Serverless: Significant effort to move pipelines, deployment, dependent libraries
  - AWS Cognito: Significant effort and risks in moving local users
- Third-Party Library Updates
  - Amplify and frontend libraries require frequent security updates to mitigate the exploitation of security vulnerabilities.
- Staff Training and Industry Knowledge









# Thank you!