Andrew Burnes

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Professional Experience

Lead Engineer, Cloud.gov Pages

Remote • July 2022 - Present

Leading a team of engineers, designers, and compliance folks building the Cloud.gov Pages static site platform for U.S. federal agencies.

- **In the past year:**
    - Released automated site scanning feature for our customers to run security and accessibility scans for our customer sites with a user friendly interface for the zap and axe-core reports.
    - Released a public file storage feature to expand our customer site hosting capabilities for public reporting and data.
    - Migrated from Enzyme to React Testing Library for our app's frontend testing framework.
    - Released a major UI update for our app with a transition to the latest US Web Design Systems version
    - Began user testing our new CMS product built with Payload CMS that integrates into the existing Cloud.gov Pages infrastructure to expand our reach to a non technical user base.
- Lead technical architecture, agile ceremonies, and product development while contributing as an individual engineer at all levels of the technology stack.
- Collaborating with agency customers on sales, onboarding, support, and product development.
- Technologies: AWS, CloudFoundry, Docker, Python, Typescript, Node, React, Concourse CI

Platform Engineer, Cloud.gov Pages

Remote • March 2018 – July 2022

Served as a platform engineer focused on SRE duties, observability, and customer support.

- Supported the development and operations of Cloud.gov's PaaS offering which was built using the OSS CloudFoundry project hosted in AWS's GovCloud.

- Expanded our monitoring and alerting tools based using the Prometheus stack.
- Improved our automation and CI pipelines using Concourse CI.
- Served on a customer support rotation and hosted our weekly customer office hours.
- Technologies: AWS, Terraform, CloudFoundry, Python, Concourse CI, Prometheus, ELK

Consulting Engineer, 18F

Remote • March 2018 – March 2020

Served as a consultant to provide agile, devops, and engineering development and training to U.S. federal agencies and state partners.

- Worked directly with our customers to build new technology products or migrate legacy systems to modernize government technology services
- Built, coached, and transitioned the fec.gov web services to use industry best practices for testing, deploying and building cloud services.
- Hosted product discovering and user experience sessions with customers to strategize and prototype their legacy system migrations.
- Technologies: React, Python, Node, PostgreSQL, CircleCI, AWS

GIS Cloud Architect, US Geological Survey

Denver, CO • September 2014 – March 2018

Served as a system architect and developer transitioning mapping services from on-premises to AWS cloud services.

- Designed and deployed scalable AWS services for The National Map and USTopo mapping platforms.
- Implemented OSS vector tile services and to improve map performance, data accessibility, and delivery.
- Presented at FOSS4G on using [open source software to translate US Topographic maps](#).
- Technologies: AWS, PostgreSQL, Python, Node.js, Mapbox, Leaflet, ESRI

GIS Specialist, Natural Resources Conservation Service (NRCS)

Phoenix, AZ • April 2010 – September 2014

Served as the Arizona GIS specialist creating mapping tools and analysis for agriculture

- Developed the open-source satellite imagery processing library to identify landscape health.

- Automated remote sensing workflows and supported field teams with GIS analysis and training.
- Built GPS data collection applications to collect and monitor plant ecology for field teams.
- Technologies: Python, ArcGIS, Remote Sensing, Landsat, GIS

Cartographer, Todd Photographic

Phoenix, AZ • August 2009 – October 2010

- Produced large-scale aerial and wall mural maps for developers and municipalities.
- Tools: Photoshop, Illustrator, GIS, Cartography

Education

- M.S., Geographic Information SystemsArizona State University — 2011
- B.S., Urban PlanningArizona State University — 2008

References

- Danny Whalen – Co-Founder, Remix | (602) 410-0680
- Robert Djurasaj – Cloud Architect Lead, USGS | (586) 565-1684
- Keith Larson – State GIS Specialist, NRCS | (602) 280-8831