

Jacob Madsen

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PROFESSIONAL EXPERIENCE

IBM, Managing Consultant

Austin, TX

General Services Administration – AWS Integration Lead

November 2020 – Present

- Designed network and application architecture for client's new AWS GovCloud environment, where our team implemented an automation solution for optimizing GSA's procurement processes
- Worked with AI/ML and UI team leads to containerize, connect and deploy their solutions to AWS

IBM, Senior Consultant

Arlington, VA & Brooklyn, NY

US Department of Veterans Affairs – Full Stack & AWS Developer

August 2020 – Present

- Integrated client Appian tool with the IAM & SSO open source authentication tool, Keycloak
- Developed Node.js applications for health checks and creating integrations with client's ELK stack

US Department of Commerce – DevOps & AWS Developer

June 2020 – August 2020

- Refactored & deployed an existing monolithic application to be a microserviced cloud application

US Department of Justice – UI & Data Analytics Developer

May 2020 – June 2020

- Worked with a team of data scientists to analyze massive amounts of unstructured data
- Single handedly created a website for a demo, using React, D3, and multiple visualization tools

US Postal Service International Operations – Blockchain UI Team Lead / Developer

July 2018 – April 2020

- Created an end to end user interface and dashboard, utilizing real-time analytics produced by the blockchain network to track international mail shipments
- Utilized the latest front-end, API, backend technologies, and code management tools such as React, Node.js, Express.js, PostgreSQL, GitHub, and GitLab
- Responsible for a team of 6 developers. Tasks included meeting with client to determine new features, dividing tasks amongst team in weekly sprints, meeting with individuals to troubleshoot bugs, code reviews, management of merge strategy through GitLab pipeline, and presenting demos to new potential stakeholders on an ad hoc basis
- Successful Proof of Concept lead to team growing from original 3 developers in July to 20 team members currently. Stakeholders grew from only USPS to 3 major airlines, with over 40 external stakeholders now accessing the UI. Results lead to \$1.1M Pilot signing in September 2019.

IBM, Consultant

Arlington, VA

U.S. Air Force Civil Engineers - Strategy Consultant

February 2018 – June 2018

- Engaged in military career education and retention programs for USAF Officers, based on historical data and 2018 USAF strategic initiatives
- Worked with Air Force Institute of Technology (AFIT) leadership to identify need for Blockchain education initiatives among junior officers, and the broader AF enterprise

Ohio Department of Transportation - Enterprise Application Consultant

August 2016 – February 2018

- Worked within IBM's Oracle practice to implement a PeopleSoft Human Capital Management system upgrade for the Ohio Department of Transportation
- Participated in complete end-to-end SDLC: requirements mapping and discovery sessions, functional design specifications, conference room pilots, creation of test scripts, system integration testing, user integration testing, and go-live

SKILLS, TRAINING, & ADDITIONAL INFO

Computer Skills: JavaScript (React, Node.js, Express.js), Microservices, Cloud (AWS, IBM), SQL, Python

Training: Red Hat OpenShift Developer Accreditation, IBM Data Analytics with Python certification

EDUCATION

University of Virginia (Class of 2016)

Charlottesville, VA

Bachelor of Arts – Economics Major, Business Leadership Minor