

# Jacob Madsen

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## PROFESSIONAL EXPERIENCE

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### IBM, Senior Consultant

Arlington, VA & Brooklyn, NY

*US Department of Commerce – DevOps & AWS Developer*

June 2020 – August 2020

- Refactored an existing monolithic application to be a modern, microserviced Cloud application
- Utilized Docker, Docker-Compose, and AWS to simplify future deployments and scaling

*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
- Developed PG database and Express.js API solely dedicated to UI, using data created from blockchain transactions. This included developing db/table structure, and maintaining a library of SQL queries accessed through various RESTful API routes.
- 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
- Completed system configuration, data staging, and unit testing within PeopleSoft test environments to ensure that IBM's solutions met the client's requirements
- Involved in daily client facing interactions, ranging from: leading weekly meetings, presenting conference room pilots, participating in design reviews, and facilitating SIT and UAT

## SKILLS, TRAINING, & ADDITIONAL INFO

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**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

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**University of Virginia (Class of 2016)**

Charlottesville, VA

*Bachelor of Arts – Economics Major, Business Leadership Minor*