Jacob Madsen

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PROFESSIONAL EXPERIENCE

IBM, Senior Consultant   **Arlington, VA & Brooklyn, NY**
US Postal Service International Operations – Blockchain UI Team Lead / Developer   July 2018 - Present
- 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
- Redesigned internal team database used for project staffing (100+ team members, 500+ candidates). Designed and wrote JavaScript functions to automate repetitive database tasks.
- 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
- Designed complex deliverables including solution blueprints, solution alternatives, functional design specifications, configuration designs, and test scripts
- 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

Computer Skills: JavaScript (React, Node.js, Express.js), SQL, Python, VBA. Expert in MS Office Suite
Training: IBM Data Analytics with Python certification, IBM Blockchain Consultant certification
Clearances: Active Department of Defense Secret clearance

EDUCATION

University of Virginia (Class of 2016)   **Charlottesville, VA**
Bachelor of Arts – Economics Major, Business Leadership Minor