Megan Paquin:

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Work Experience:

ECS Tech, Full Stack Developer
December 2022 – Present

- Build a database driven Front-End that allows the user to make extensive changes with minimal code requirements. Prevents service interruptions and streamlines changes.
- Write a JavaScript function that utilizes Yahoo User Interface Library and improves the outdated data table presentation to include filter boxes on the table headers that are dynamically built.
- Subject Matter Expert for Kinetic Data COTS product that utilized a React frontend and a Ruby Backend as a Service. Troubleshoot complex custom React components and integrations.
- Write well-constructed SQL queries for accessing, changing, and troubleshooting data from a Java Back End using Hibernate and Spring. Follow data minimization and normalization principles
- Utilized environment properties files that allow quick changes to constants across multiple environments and secure injection via AWS ensuring encrypted strings inaccessible in memory.
- Re-engineer outdated code to understand business logic, requirements, and gather information. Refactor code to industry standard and implement improvements for cleaner code.

Middlebury College, Enterprise Data Full Stack Developer
October 2024 – Present

- Created an Azure Pipeline to automate the deployment process of PowerBI reports utilizing Azure Keystore to maintain secure strings and ensure proper security for authentication.
- Created a PowerShell script that utilized Microsoft APIs through HTTP requests to automate the management of PowerBI workspaces and implement source control in GitHub.
- Utilize Entra ID and Managed Identities to allow secure and manageable access to scripts.
- Created a Python Executable file to contain a project for implementation via Git Hook for team members without Python experience or necessary addons.
- Wrote a Python script to extract SQL from PowerBI reports and reformat from M-Code into human readable SQL and save into a git directory automatically when changes were detected.
- Conduct research on Oracle Database to understand how the data is distributed, utilized, maintained, and find insights into improvements or areas of opportunity.

San Diego University, Student
May 2022 – December 2022

- Developed a React application utilizing custom forms for user inputs, processed data for security and response validation, utilized HTTP request to custom Python backend into MongoDB.
- Utilized react-router-dom package to create a single page web application which enhanced load speed and delivered a cleaner user experience.
- Developed a Flask application that utilized jinja2 to build a front-end framework within a python application leveraging microservice principles and CRUD operations.
- Created a custom Django user object that extended the built-in AbstractUser to leverage Django authentication and permissions while having complex and fluid user attributes.
- Utilize Django html templates to streamline front-end development and ensure consistency throughout the application. Streamlined future changes by only needing to change one location.

United States Army: Project Manager, Engineer Officer, Industrial Engineer
December 2013 – PRESENT

- Seamlessly interacted with cross-functional teams having highly diverse backgrounds and skills to ensure project deliverables were on-time, on-budget, high-quality, and met the desired outcomes.
- Developed new systems and enhanced old processes to reduce and refine maintenance systems leading to less vehicle downtime and greater vehicle roadway compliance.
- Created and monitored a project timeline utilizing Microsoft Project for a multi-billion-dollar construction project spanning 6 years and building 8 industrial facilities.
- Utilized CAMS and ECC, enterprise resource planning programs to develop industrial manufacturing bills of material, routes, process procedures, assembly line process, and project lead times.

SUNY Upstate Medical University: Project Engineer
September 2015 – September 2016

- Utilized C++ with Arduino and micro controllers to process data, send results, display results and functions, and communicate medical information related to blood pressure.
- Created a time-based algorithm to save data continuously in a fixed length array that translated 3-dimensional coordinates into a sinusoidal wave function.
- Utilized LabVIEW to test inputs and outputs of an accelerometer, pulse oximeter, and pressure sensor to calibrate and test prototype devices for reading continuous blood pressure.
- Mastered complex mathematical functions within C++ to calculate a time delay difference between the largest value of two arrays generated by axillary inputs that were constantly changing.

Developer Skills:

Python	JavaScript	HTML	CSS	Java
Linux	Pop! OS	Ubuntu	BASH	Ruby
VS Code	Git	GitHub	Version Control	Data Structures
jQuery	REACT	JSX	HTTP	AJAX
AXIOS	FLASK	State Variables	Global Variables	MongoDB
SQL	API	Bootstrap	BitBucket	Code Review
Jira	Jenkins	Kinetic Data (COTS)	Amazon EC2	Amazon S3

General Skills:

AutoCAD	Inventor	LabVIEW	LMP	ECC
CAMS	Microsoft Project	Auditing	Collaboration	Communication
Data Science	Fishbone	Gantt	Optimization	Presenting
Prioritization	Compliance	Scheduling	Standardization	SOPs
Development	Engagement	Design	Leadership	Execution
Innovation	Planning	Metrics	Lean Concepts	Agile Concepts

Education:

Syracuse University: B.S. Biomedical Engineering – 2016
Maneuver Support Center of Excellence: Engineering Project Management – 2018
San Diego State University: Full Stack Web Development – 2022

Certifications:

Six Sigma Yellow Belt: ISSAC 2018
Six **Sigma Green Belt**: ISSAC 2022
AWS Cloud Practitioner: AWS 2023