Bruce Webber

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Skills	
Languages / Technologies	Python, HTML, CSS, JavaScript, SQL, XML, JSON, Object Oriented Design and Programming, Web Services, RESTful APIs, Bash, JSON Web Tokens (JWT), Docker, Jenkins
Databases	Oracle, Microsoft SQL, MySQL, PostgreSQL
Web frameworks	Flask, Django, Node JS, Bootstrap, jQuery, ReactJS, AngularJS
Software	Business Objects, DataStage (ETL), Subversion, Git, Mercurial
System administration	Ubuntu Server

Accomplishments

- Developed a client side React page which allowed users to update vehicle inspection data. The use of AJAX allowed the page to update interactively.
- Developed a Python application to modify continuity of care (CCD) documents which are in XML format. The program queried the EMR database (Oracle), updated the XML, and transmitted the files to the health information exchange.
- Coordinated a project to import clinical data into the hospital electronic medical record (EMR) system. Developed Python applications to convert the data into HL7 format, allowing it to be loaded into the EMR.
- Developed a database-driven website to manage registrations for an event, using Flask, Bootstrap, AngularJS and PostgreSQL. The website accepted Bitcoin payments and credit card payments using the Stripe Payments JSON API.
- Created a dashboard using Java Server Pages (JSP), which queried an Oracle database to display aggregate statistics by hospital. End users could drill into the data and eventually view Business Objects reports with details.
- Developed Jython programs which called Java packages. This allowed rapid development with Python while taking advantage of existing Java code.
- Trained users in the use of the Business Objects reporting tool in one-on-one and classroom settings.
- Mentored team members on software development life cycle practices.

Professional Experience	
Alliance Inspection Management Farmington Hills MI	2016 - Present
Software Developer	
Worked as part of two Agile teams following the Scrum methodology. Developed Node JS, ReactJS and AngularJS applications which managed requests for vehicle inspections. Developed Flask and Django web applications which support the vehicle inspection process. Developed a client side React page which allowed the user to interactively update inspection data. Deployed applications using Docker and Jenkins to an AWS cloud environment.	
Detroit Medical Center (Lochbridge) Detroit MI	1992 - 2016
Team Lead, Decision Support	
Led a team responsible for the ongoing development and maintenance of an Oracle-based data warehouse, using Business Objects as a reporting tool. Data sources included Microsoft SQL databases and mainframe datasets. Developed applications in Python for web access to databases and for system integration. Introduced a wiki for team documentation and a version control system for application code. Supported the conversion of EMR data for several clinics. Provided ongoing production support.	
Manager, Deployment Lab	
Supported major upgrades to the EMR System, which involved large, simultaneous upgrades to 4000 PCs. Researched and piloted Point of Care devices at the DMC. Designed the PC desktop configuration for EMR PCs and created the deployment methodology for several thousand of these PCs. Created and tested deployment methods for over 100 PC applications.	
Manager, LAN Group	
Designed, implemented, and supported DMC-wide LAN-based systems. Administered corporate servers and Unix hosts. Managed server standards throughout the DMC, including testing and selection of server system software.	

Education
Bachelor of Science in Electrical Engineering, Virginia Tech

Certifications
CSPS – see my website for details.

Personal Interests
Organizer, Eastern Michigan Python User Group (EMPUG)
Hosted monthly meetings. Gave presentations on Python and cryptocurrencies.
President, Birmingham Unitarian Church (2018-2020)
Coordinated the work of the Board of Trustees under a system of policy governance. Led the transition from an in-person annual business meeting with paper ballots to a virtual Zoom meeting using Zoom polling and ElectionBuddy for voting.

Updated: 2020-08-06