Stephen J. O'Connor

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Summary

Full-stack web application developer with strong engineering background seeking to develop skills and experience towards data analysis, solution design, and application development.

Technical Skills

Programming Languages, Frameworks, and Libraries

Python, JavaScript, C#, Java, C++, PHP, MatLab, ASP.net, JSON.net, Django, Flask, Node.js, jQuery, jQWidgets, vis.js, dynatable.js, Ladder Logic (Rockwell), Performance Equations (OSISoft), PPCL (Siemens), Plain English (Schneider Electric), and Arduino.

Software and Tools

Git/GitHub, Microsoft Visual Studio, Atom, Eclipse, OSISoft PI Application Suite, Diff Analysis Tools, and BASH/Batch Files.

Data Transfer and Storage Languages

SQL (SQLite, MySQL, SQL Server), HTML, JSON, CSV, XML, HTTP, REST, NoSQL (Redis, OSISoft Data Archive Historian, Wonderware Historian), ModBus, BACNet, OPC, MQTT, and SMTP.

Recognitions and Awards

Dept. of Energy 2016 Federal Energy and Water Management Award 08/2016

For developing energy and resource metrics that lead to immediate identification of the immediate identification of a 100 gallon per minute leak, costing NIH almost $20,000 per month.

2015 Health and Human Services Green Champion Award Winner 06/2016

For contributions related to campus wide water waste identification program, lowering campus water usage by up to 100,000 gallons per day and saving an average of $650,000 per year.

R.E.W.A.R.D.S. Informal Recognition Award 05/2016

For development of NIH Pharmacy Dashboards to ensure compliance with FDA CGMP standards.

R.E.W.A.R.D.S. Informal Recognition Award 02/2016

For ensuring operational uptime of the NIH industrial plant through January 2016 blizzard.

Experience

GS-0802-13 Supervisory Engineering Technician 04/2015 – 12/2016

National Institutes of Health Bethesda, MD

- Founded and led Engineering Information Division specializing in automation technologies, data transfer and storage, and analysis solutions such as visualization and report designs.
- Developed and administered website utilizing a custom content management system with HTTP-JSON API for display of live engineering data in easily developed webpages.
- Designed engineering metrics and optimizations to reduce wasted resources, saving more than $1,200,000 per year in water usage and electrical costs.
- Reutilized internal IT resources, saving NIH a total of over $500,000 in project costs.
- Integrated engineering and maintenance data systems using the OSISoft PI application suite to allow high-level analysis in service of biomedical facilities.
- Established cybersecurity policies and procedures in accordance with best practices.
- Trained department personnel on emerging and custom-developed technologies.
- Analyzed services offered to ensure complicity with accessibility requirements.
- Mentored college interns, identifying and applying skillsets to the NIH mission, enabling students to become leaders through the establishment of new programs.

- Led troubleshooting efforts on critical mechanical and IT resources.
- Produced internal communication and marketing tools utilizing web technologies to advertise and justify over $200,000,000 in planned projects to NIH executives.
- Maintained information system equipment, regularly performing audits and planning organizational strategies for Department Director review.

Engineering Specialist **12/2014 – 04/2015**
Chugach Alaska Services Bethesda, MD

- Performed engineering based services for National Institutes of Health with a focus on sensor calibration, SCADA system operations, data integration, and report generation.
- Established system standards for analysis and display utilizing OSISoft PI Application Suite.
- Trained NIH staff on operation of OSISoft PI Data Archive and visualization tools.

Automation Specialist **05/2013 – 12/2014**
Siemens Building Technologies Beltsville, MD

- Advised engineers and manage other technicians in industrial plant recommissioning that resulted in energy savings of over $350,000 per month.
- Installed, programmed, certified, maintained, integrated, and provided training for automation panels, workstations, equipment controllers, and various automation devices.
- Developed procedures in the areas of certification and calibration to custom specifications.
- Created numerous assistant programs to automate repetitive and regular tasks, saving hundreds of hours in logging and documentation and thousands of hours in troubleshooting over several months.

Engine Room Supervisor **01/2010 – 05/2013**
USS Toledo, United States Navy Groton, CT

- Qualified five nuclear mechanical watch stations onboard the USS Toledo while successfully completing two deployments overseas with intensive pre-deployment maintenance periods.
- Supervised and coordinated five nuclear watch stations while providing training to junior personnel on proper nuclear plant and submarine operations.
- Served as Machinery Division Lead Calibration Technician: responsible for the calibration of over 450 measurement, remote indication, and safety devices.
- Recognized for actions while in imminent danger as fire response team lead hoseman.

Education & Training

Bachelors of Science, Computer Science **05/2017**
University of Maryland University College Adelphi, MD

- 3.9 GPA, Dean’s List, Minor in Cybersecurity. Expected graduation date: May 2017.
- Coursework focus: algorithm design and analysis, language design, signal analysis, linear algebra, Linux administration, network security, ethical hacking, and digital forensics.

Lean Six Sigma Green Belt Training **07/2015**
National Institutes of Health Rockville, MD

- Focus includes quality management techniques and tools, such as DMAIC, for process improvement and waste reduction based on sound empirical and statistical methodology.

Certified Metrology and Calibration Technician **02/2010**
United States Navy Groton, CT

- Qualified calibration technician in the areas of instrumentation and measurement.

Certified Nuclear Reactor Operator **05/2007 – 12/2009**
Naval Nuclear Power Training Command Charleston, SC & Ballston Spa, NY

- Trained in the fields of mechanical, electrical, and reactor theory.
- Placed in the top 20% with leadership positions.