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SUMMARY

Full Stack Developer with over 20 years of success creating software solutions. Wide breadth of experience in multiple industries, languages, tools, and third-party applications demonstrates success. Excitement about creating code to deliver high quality useful software results in systems that support business growth.

PROFESSIONAL WORK EXPERIENCE

Paychex, Inc

Middleware Architect

June 2013 – Present

Rochester, New York, USA

- Created system to rebalance 20,000 databases among 200 pools in Azure cloud using algorithmic, statistical, and machine learning techniques with TensorFlow, Pandas, NumPy, Jupyter, and scikit-learn in a Python pipeline.
- Built IT inventory system that provides a single source of truth for virtualized and physical hosts, JVMs, CLRs, databases, and middleware infrastructure with a HTML5 webapp and REST front-end. Relationships were sourced from external systems including AppDynamics, Puppet/Facter, ServiceNow, and Oracle OEM with a custom export to ServiceNow's CMDB.
- Custom Chaos Monkey randomly kills LDAP and SiteMinder middleware processes, and Java microservices daily in production and non-production environments. The Chaos Monkey is monitored and controlled by a Spring Boot web application and Splunk dashboard.
- Implemented AppDynamics on over 20,000 JVMs to replace our custom built system that collected and monitored JVM metrics and send alerts via SNMP and SMTP.

Technologies: Java, JavaScript, JQuery-UI, Oracle PL/SQL, Scikit-Learn, TensorFlow, Python, middleware, AppDynamics, Application Performance Monitoring, ClearCase, Ant, Git, JUnit, Vagrant

Rochester Institute of Technology

Adjunct Professor

August 2017 – Present

Rochester, New York, USA

Lecturer for undergraduate Java courses.

Axeda, Inc (division of PTC)

Senior Software Engineer, R&D

June 2010 – June 2013

Rochester, New York, USA

- Full stack Java/Oracle/ActiveMQ JMS developer for IoT system.
- Lead for Cognos Business Intelligence integration with IoT data. Integrated Groovy with Cognos to script report creation, execution, publishing, and administration.
- Internal consulting for new and existing solutions for professional services and product management teams.

Technologies: Java, JavaScript, JBoss, Oracle PL/SQL, Hudson/Jenkins, JUnit, Cognos, Business Intelligence, Maven, SVN

Paychex, Inc

Lead Developer

2005 – 2010

Rochester, New York, USA

- Lead team converting two existing external Java/JSP/Oracle applications to Web 2.0 and creating new external application from existing internal-only functions. Leveraged Hudson for Continuous Integration and automated turnover to QA.
- Mentored new developers, delivered technical training, and provided answers to challenging technical questions for development team.
- Member of architecture team to research and set five-year strategy for web application strategy.

Technologies: Java, JavaScript, JSP, Struts, WebLogic, Oracle PL/SQL, Hudson/Jenkins, JUnit, ClearCase

Frontier Communications

Senior Software Developer

2001 – 2005

Rochester, New York, USA

Created Java applications to build DSL circuits and track call center commissions; CruiseControl used for Continuous Integration. Automated generation of 20 Excel spreadsheets from Hyperion EssBase saving two FTEs weekly.

Global Crossing (division of Level3)

Senior/Lead Developer

1999 – 2001

Rochester, New York, USA

Lead for multi-site team creating Java application to reconcile network and order entry inventory and Perl CGI application to automate creating circuits on ATM and Frame Relay networks.

JP Morgan

1995 - 1999

Lead Developer

New York, New York, USA

Created trading systems in C/C++ and tactical applications for equity derivatives trading desk.

BlackRock Financial Management

1993 – 1995

Software Developer

New York, New York, USA

Developed systems in C and C++ for MBS (mortgage) bond, Treasury, and Repo trading desks.

CERTIFICATIONS AppDynamics Certified Implementations Professional

November 2016

“An individual who attains the AppDynamics Certified Implementation Professional certification has demonstrated that he or she possesses the minimum acceptable level of knowledge and skills required to deploy AppDynamics Controllers, Agents, EUM Servers and Analytics Servers. This individual also has experience using AppDynamics APIs to extend and customize the AppDynamics platform.”

PRESENTATIONS Axeda Reporting – A Guide to Service Intelligence (Presentation)

May 2013

Axeda Connection Conference, Axeda, Inc.

Live presentation for Axeda customers to review and demonstrate new features added to the Cognos big data reporting product.

AWARDS AppDynamics Scale Award, AppSphere 2015

November 2015

Awarded to the company that was able to quickly deploy the AppDynamics tool across the most complex environment. Our team deployed the AppDynamics tool to over 2,000 JBoss, WebLogic, and Windows IIS servers across production and non-production environments.

EDUCATION Bucknell University

Lewisburg, Pennsylvania, USA

B.S. in Computer Engineering

- Senior design project creating reference implementation of DHCP protocol for RFCs 1531 and 1534
- Summer research internship in digital image processing
- Concentrations in Geology and Digital Electronics

Technologies: Computer Science, C, VAX assembly, DHCP, TCP-IP, Digital Electronics

OTHER Leader, Boy Scouts and Cub Scouts

2007 – Present

ACTIVITIES FAA Certified Private Pilot

2000

[CV compiled on 2018-06-17]