Charles Henry Armentrout V

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Career Profile

Passionate programmer who undertakes complex projects utilizing knowledge of Python, C#, Bash, JavaScript, and HTML5. Possesses practical experience in Linux installation, maintenance, and configuration, database design and integration, deployment and containerization, and also possesses strong interpersonal skills for successful team work and collaboration. Thrives in a fast-paced environment and actively seeks innovative and adaptable solutions to technological issues.

Professional Experience

Software Engineer, Deloitte, Morrisville, NC   Jul 2014-Present
- Design and implement software solutions to fill business needs based on business logic specifications.
- Lead maintenance of legacy system.
- Implement infrastructure and orchestration of API based parallel service container platform using Docker, Apache Zookeeper, NGINX, Vagrant, and Cassandra DB.
- Develop and maintain full-stack web-facing applications utilizing a python based backend.

Software Developer, ICF International, Martinsville, VA   Dec 2013-Jul 2014
- Architect and write applications in C#
- Integrate applications with MS SQL Server, SharePoint, and other services
- Use API services, HTTP requests, and TCP connections to consolidate information from multiple services and applications in C# and Python
- Create custom web forms using JavaScript, HTML5, and ASP .NET with C#
- Design and build database schema to support projects and applications
- Automate previously manual reporting processes

Analyst, Supplemental Software Solutions, Greensboro, NC   Sep 2012-Dec 2013
- Organize data and built reports for a variety of major retail suppliers
- Write batch processes to load data into database
- Write SQL scripts and queries to organize data into customized formats
- Use Microsoft Excel and other Microsoft Office products to transport the data to customers
- Write VBA macros to allow users to manipulate data further at run time
- Use daily and weekly sales data to craft reports highlighting various business metrics over time that users receive automatically on a daily or weekly basis
- Utilize SQL Server Reporting Services to make web based reports that users can access at any time per custom request
- Parse and translate EDI 850 output into SQL database using C#

Notable Work

Managed Service Platform, Deloitte   2015
Implemented infrastructure of a REST API / Docker Container based platform for hosting services on demand. Services are automatically detected and registered when initialized and they can discover and communicate with each other via a RESTful API model for collaboration on solving business problems. The dynamic nature of the platform allows for rapid scaling to accommodate fluctuating load on terabyte-plus sized data and the services are load-balanced using NGINX upstream routing.

Check Escheatment System, ICF International   2014
Given the task of managing and reporting on the escheatment of un-cashed checks from rebate offers for energy clients. Designed custom database structure and tables, system of C# console applications, and SharePoint site to automatically keep information up to date and easily accessible to users. System is currently used to manage rebate checks for all energy clients.

Education

Appalachian State University, Boone, NC   May 2012
- Bachelor of Science, Finance and Banking, GPA 3.29
- Bachelor of Science, Risk Management and Insurance, GPA 3.29

Academic   Honors

Dean's List, (Spring 2011, Fall 2011, Spring 2012)
Chancellor's List, (Fall 2009)
Selected Courses: Derivative Investments, Enterprise Risk Management, Commercial
                    Banking, Business Management, Financial Management

Computer   Skills

Languages: Python, C#, Bash, JavaScript, HTML5, VBA Script, Batch, Perl, SQL, CQL, LaTeX
Frameworks/Systems: Flask, Docker, Vagrant, Ansible, GIT, Zookeeper, NGINX