Charles Henry Armentrout V

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Professional Experience

SignalPath / Verily — *Raleigh, NC*
SENIOR SOFTWARE ENGINEER — *Feb 2021 – Present*
- Architect and implement a greenfield financial ledger service to replace a legacy system and provide significant performance increases and new features
- Performed interviews and mentored junior developers in software best practices, object oriented, and functional architecture paradigms
- Core contributor or sole author of many back-end features and bug fixes across a suite of various Scala microservices
- Scala, Postgres SQL, Slick, Finatra, Doobie, Cats, Scalaz, Kinesis, Docker

The McClatchy Company — *Raleigh, NC*
LEAD ENGINEER — *Feb 2020 – Jan 2021*
- Lead a team of remote engineers to update and modernize an ETL system and data warehouse for cloud-native architecture
- Helped lead data platform strategy decisions
- Refactored, reviewed, and mentored team on python development practices to increase code quality, coverage, and testability across the platform
- Python, AWS, S3, Lambda, Glue, DynamoDB, RDS, Spark, Kinesis, SQS, Redshift

Credit Suisse (Contract) — *Durham, NC*
AUTOMATION ARCHITECT — *Nov 2019 – Feb 2020*
- Contracted to design an automation solution for security response workflows
- Python, Flask, Splunk SOAR

Cisco Systems — *Durham, NC*
SOFTWARE ENGINEER / SENIOR SOFTWARE ENGINEER — *Jan 2017 – Nov 2019*
- Engineer back-end systems for network test automation application
- Design and implement system for performing network tests remotely
- Design and update API through multiple versions and changes
- Python, Postgres SQL, Flask, REST, Robot, TextFSM, Docker, Kubernetes, Linux, Bash, SSH, SFTP, Networking

Deloitte — *Morrisville, NC*
SOFTWARE ENGINEER — *Jun 2014 – Jan 2017*
- Maintained legacy python systems
- Refactored legacy systems into a microservice architecture
- Built tooling for service discovery and communication
- Python, Postgres SQL, Flask, CassandraDB

Education

Appalachian State University — *Boone, NC*
BS IN FINANCE AND BANKING | RISK MANAGEMENT — *2008 – 2012*

Projects

Ledger — *Scala, Slick, Postgres SQL*
FINANCIAL MICRO-SERVICE. SOURCE OF TRUTH FOR ACCOUNTING SYSTEM. LISTENS TO MULTIPLE SERVICES, CONSTANTLY COMPARING EVENTS AGAINST STATE TO DETERMINE COSTS / CHARGES ASSOCIATED WITH VARIOUS BUSINESS ACTIVITY. HIGH TRAFFIC, NO TOLERANCE FOR ERROR, CONSTANT AVAILABILITY.

CXTM — *Python, Flask, SQL, SQLAlchemy, Robot, TextFSM, Bash, Linux, SSH, SFTP, TCP*
SYSTEM FOR TRACKING NETWORK TEST PLANS, EXECUTION HISTORY, AND THE ACTUAL EXECUTION OF THOSE TESTS ON REMOTE DEVICES. REST API AND ALL BACK-END BUSINESS LOGIC.

ETL / Data Warehouse — *Python, Spark, AWS (S3, Glue, DynamoDB, Lambda, RDS, Athena, Kinesis, Redshift)*
CLOUD-NATIVE DATA WAREHOUSE AND PIPELINES FOR INGESTING, TRANSFORMING, SORTING, AND STORING DATA, USING NO LOCAL RESOURCES WHATSOEVER. QUERYING SYSTEM FOR RETRIEVING AND ANALYZING DATA.