

# Charles Henry Armentrout V

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## Professional Experience

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### SignalPath / Verily

Raleigh, NC

SENIOR ENGINEER

Feb 2021 – Present

- Authored multiple architecture solutions for a greenfield financial ledger service to replace a legacy system and provide significant performance increases and new features.
- Performed interviews and mentored junior developers as they got up to speed on our technologies and systems
- Worked as part of an on-call team to rapidly respond to production issues if needed
- Scala, SQL, Slick, Finatra, Doobie

### The McClatchy Company

Raleigh, NC

LEAD ENGINEER

Feb 2020 – Jan 2021

- Lead a team of remote engineers to update and modernize an ETL system for serverless architecture.
- Helped lead company technical strategy toward a less human resource intensive solution
- Cut infrastructure costs significantly by redesigning serverless strategy
- Python, S3, Lambda, Glue, SQS

### Credit Suisse (Contract)

Durham, NC

AUTOMATION ARCHITECT

Nov 2019 – Feb 2020

- Contracted to design an automation solution for security response workflows
- Python, Flask

### Cisco Systems

Durham, NC

SOFTWARE ENGINEER / SENIOR ENGINEER

Jan 2017 – Nov 2019

- Engineer backend systems for network test automation application
- Design and implement system for performing network tests remotely
- Design and maintain application API through multiple versions and changes
- Python, Flask, Robot, TextFSM, Docker, K8S

### 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, SQL, Flask

## Education

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### Appalachian State University

Boone, NC

BS IN FINANCE AND BANKING | RISK MANAGEMENT

2008 – 2012

## Projects

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### Ledger

Scala, Slick, SQL

SOURCE OF TRUTH FOR ACCOUNTING SYSTEM. LISTENS TO PIPELINES FROM 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

SYSTEM FOR TRACKING NETWORK TEST PLANS, EXECUTION HISTORY, AND THE ACTUAL EXECUTION OF THOSE TESTS ON REMOTE DEVICES. REST API AND ALL BACKEND BUSINESS LOGIC.

### ETL / Data Storage

Python, AWS(S3, Glue, DynamoDB,  
Lambda, RDS, Athena)

CLOUD DATA SYSTEM FOR INGESTING, SORTING, AND STORING DATA, USING NO LOCAL RESOURCES WHATSOEVER. QUERYING SYSTEM FOR RETREIVING AND USING DATA.