

yarlescy@gmail.com • **Charles Yang** • (515)-559-3423

Delivery focused SWE. Highly technical.

SKILLS AT A GLANCE

Node.js + React
Python

AWS
Apache Cassandra

CI/CD
Unit Testing

Git, any VCS
SQL/RDMS

PROFESSIONAL EXPERIENCE (ALL “AGILE” METHODOLOGY)

QCI

Software Engineer

West Des Moines, IA

12/2022-Present

Software consulting for a variety of clients and technologies

- Rewrote <https://www.philmybin.com> with SvelteKit & setup CI/CD in Azure
- Refactored legacy JBoss 3 Java app to be deployable to Tomcat in Azure
- Saving developer hours by reducing local build times from 5 min to <3 seconds
- Diagnosed and fixed flaky CI/CD pipelines, improving time-to-delivery
- **Responsible for React frontend, Node + Java + Serverless backends, AWS infrastructure, DBs**
- Found ways to deal with Cassandra limitations (tombstones, inherited bad data model)
- Contributed to widely utilized internal terraform modules

DOCUVET

Founder/Engineer

Ames, IA

8/2023-Present

AI-powered PIMS for veterinarians

- Deployed custom Python audio transcription service in AWS
- Architected system for MVP, including databases, core API, AI services, and web & mobile app
- Estimated IT costs to understand financial model

IOWA STATE UNIVERSITY EXTENSION

.NET Software Developer

Ames, IA

8/2022-12/2022

Developed critical software to meet federal reporting requirements for the head of ECommerce

- Developed reporting .NET web APIs for consumption by the federal government
- Created SQL tables to hold new Ecommerce reporting data
- Added new features to legacy .NET Extension Store application

PRINCIPAL FINANCIAL GROUP

Software Infrastructure Intern

Des Moines, IA

5/2022-8/2022

Building out infrastructure for enterprise logging solution handling over 100 million logs a day.

- Setup CI/CD for Logstash pipelines running in distributed EC2 compute clusters
- Developed automated monthly report of logging infrastructure usage for our AWS management team
- POC'ed running a self-managed Kafka Connect cluster
- Wrote reliable Python or TypeScript IaC with AWS CDK for the above projects
- Completed “inner-source” hackathon project with API Gateway & Lambda, OpenSearch, and DynamoDB

IOWA STATE UNIVERSITY ENVIRONMENTAL HEALTH & SAFETY

Fullstack .NET Web Developer

Ames, IA

7/2021-5/2022

Designed, implemented, and modernized internal and external applications to support EH&S

- Integrated PasswordState with .NET applications, allowing minimum access to secrets
- Developed fully featured employee in/out board, vehicle reservation system, and other custom software
- Migrated several .NET Core 3 & 5 applications to .NET 6
- Worked with Subdepartments to implement improvements to half a dozen legacy applications

EDUCATION

IOWA STATE UNIVERSITY

Bachelor of Science in Data Science, 3.89 GPA

Ames, IA