

Education

B.S Computer Science | Psychology Minor | Clemson University | Dec 2024

Certifications

- AWS Certified Solutions Architect – Associate (SAA-C03) | March 2025
- AWS Certified Developer – Associate (DVA-C02) | March 2025
- AWS Certified DevOps Engineer – Professional (In Progress)
- DHS Certified Trusted Tester - Accessibility | Jan 2025

Experience

Freelance Backend Developer | Remote | Spring 2025

- Developed an automated data pipeline to extract earnings reconciliation data from SEC EDGAR filings using Python, BeautifulSoup, and Requests.
- Integrated OpenAI's GPT-4 API to analyze and convert financial data into structured CSV outputs for research.
- Optimized text processing with regex and HTML preprocessing, improving data extraction accuracy.

Web Development Intern | Clemson University | Fall 2024

- Implemented structured layouts and content for clemson.edu/studentaffairs using Cascade CMS
- Deployed updates from Clemson's dev environment to production via an internal CMS pipeline, conducting Lighthouse audits and accessibility checks to ensure performance and WCAG compliance
- Performed rollback procedures as needed to maintain site stability and uptime with minimal supervision

Technical Support Assistant – Clemson University | Spring 2024

- Provided technical assistance to students and staff using the TigerOne Mobile ID system, resolving iOS and Android device issues
- Diagnosed and troubleshooted access control and identity-related issues through backend system tools
- Supported testing and diagnostics for backend integration with campus infrastructure, improving service response and reliability

DevOps & Cloud Engineering Projects

Donut Order System – Event-Driven Serverless App with DevOps Pipeline

- Built a fully serverless donut ordering system using API Gateway, Lambda, Step Functions, EventBridge, DynamoDB, and SES
- Designed workflow to process orders, generate receipts, and send email confirmations using SES and S3 pre-signed URLs
- Containerized the React frontend and deployed it to ECS Fargate behind an Application Load Balancer
- Built CI/CD pipeline with CodePipeline, CodeBuild, and ECR for fully automated frontend deployment
- Provisioned infrastructure using CloudFormation and monitored application health with CloudWatch Logs

To-Do List Application – Full-Stack DevOps Project on AWS

- Containerized a Vanilla JavaScript to-do list app with Docker and deployed it to ECS Fargate behind an ALB
- Built a secure backend with API Gateway, Lambda (in VPC), RDS (MySQL), Cognito, and IAM for authentication and data storage
- Automated deployments with CodePipeline, CodeBuild, and ECR; provisioned infrastructure using CloudFormation and S3
- Integrated CloudWatch Logs for real-time monitoring of Lambda functions and ECS containers
- Used S3 pre-signed URLs to securely manage uploaded task attachments

Good Driver Incentive Program – Cloud-Based Rewards System (Team Project, Agile)

- Collaborated with 5-person Agile team to develop an AWS-based platform for 65+ production users
- Used Lambda, API Gateway, Cognito, RDS (MySQL), SES, and SNS to support secure driver rewards tracking
- Resolved CloudFormation stack failure to restore CI/CD pipeline via AWS Amplify
- Conducted real-user testing, performance monitoring with CloudWatch, and SNS alerts for account events