J. Bryson White

Professional Summary

Full-stack software engineer with 5+ years of experience designing, developing, and deploying scalable applications in cloud-native and regulated environments. Proven ability to own high-impact initiatives from concept to production, including healthcare integrations, infrastructure automation, and system monitoring solutions. Skilled in modern DevOps practices, microservice architectures, and cross-functional collaboration to drive business value. Trusted to solve complex technical challenges and deliver reliable solutions in high-stakes, customer-facing environments.

Experience

Applied Materials - Remote
Software Engineer E2 (Full Stack)   *January 2025 - Present*

- Automated application deployment with Powershell
- Designed CI/CD pipelines with Jenkins
- Performed installs and gave support for production systems in over 20 customer environments
- Developed C# microservice based application with RabbitMQ message bus architecture
- Collaborated with solutions engineers to deliver pharma logistics solutions to global manufacturers
- Resolved complex Anaconda licensing conflict, defined and built out the resulting python environment on production systems, saving AMAT and customers $600 per user per year and avoiding costly litigation
- Independently developed and deployed to production systems a high-availability service monitoring system using Docker, REST, and Bash, resulting in reduction of time-to-act by an order of magnitude
- Migrated solution to high-availability architecture using Kubernetes and Docker

GlobalMed LLC - Scottsdale, AZ
Software Engineer I (Full Stack)   *June 2021 - January 2023*

- Developed front-end using React
- Maintained & integrated legacy Java & JQuery apps
- Created middleware and server code with .NET
- Held product to STIGs (Secure Technical Implementation Guidelines) set forth by the US DoD
- Performed R&D related to DICOM & HL7V2 standards

Software Engineer (Integrations)   *January 2023 - January 2025*

- Deployed cloud services enabling FHIR (Fast Healthcare Interoperability) workflows
- Developed Dockerized microservices
- Aided Product Management in writing requirements and user stories using Azure Devops
- Made legacy apps cloud agnostic
- Designed & implemented an HL7V2 (Health Level 7 Version 2) messaging engine using AWS SQS and MongoDB
- Led scalability uplift initiative, resulting in 99.9999% server uptime and seamless deployments
- Designed, managed, and owned development of our company's first EHR integration, resulting in a successful sale, support contract, and deployment to production

Clarksville Geographic Information Services - Clarksville, TN
Software Engineer Intern   *September 2019 - June 2020*

- Developed GIS Python application using Tensorflow for real-time video analysis
- Refined machine learning model analyzing parking lot security footage, improving computer
  vision model accuracy from 77% to 98%
- Cleaned & hosted large datasets of over 2688 hours of parking lot video
  footage
- Used GitHub source control

Education
Austin Peay State University - Clarksville, TN
B.S. in Computer Science, Magna Cum Laude - GPA 4.0
Concentration: Information Assurance & Security

University of Tennessee - Knoxville, TN
B.S. in Chemistry, Summa Cum Laude - GPA 3.7

Skills
Languages & Frameworks
C#, Java, Python, JavaScript (React, React Native, Next.js, Expo, jQuery, Bootstrap)

Cloud & DevOps
AWS, Azure, Docker, Kubernetes, Jenkins, CI/CD pipelines, Powershell, Bash

Architecture & Systems
Microservices, RESTful APIs, Reactive systems, RabbitMQ, High-availability design,
Cloud-agnostic architecture

Data & Standards
FHIR, HL7v2, DICOM, MongoDB, SQL, R, pandas, numpy, TensorFlow, JSON, YAML

Tools & Workflow
Git, GitHub, Jira, Azure DevOps, Anaconda, Scrum, Agile development

Business & Communication
Technical writing, Requirements documentation, Stakeholder communication, Software
procurement strategy, Small business operations, Customer Support, Mentoring of junior
colleagues, Knowledge transfer to leadership and stakeholders

Security & Compliance
Cybersecurity, HIPAA, Audit preparation, Managed environment administration