

# JOSHUA BANEY

## SYSTEMS DEV. & DEVOPS ENGINEER

+1 410-946-4226

104 Circle Terrace  
Halethorpe, MD 21227

joshnbaney@gmail.com

github.com/JoshBaneyCS  
joshbaney.cm

### SUMMARY

Experienced in IT, DevOps, and software engineering with a focus on optimizing workflows, building scalable systems, and delivering cost-effective solutions. Completed a 2024 Amazon Software Engineering internship, developing generative AI tools, streamlining operations, and analyzing data trends. Proficient in Python, JavaScript, and Java, with expertise in AWS, infrastructure automation, and API integrations. Skilled in building full-stack applications, monitoring tools, and cloud-based solutions to enhance efficiency and scalability.

### SOFT SKILLS

- Adaptability
- Collaboration
- Problem-Solving
- Communication
- Time Management
- Creativity
- Empathy
- Leadership

### HARD SKILLS

- Cloud Computing
- Version Control
- API Development
- Data Structures and Algorithms
- DevOps
- Database Management
- Distributed Computing
- Systems Admin & Architecture

### WORK & INTERNSHIP EXPERIENCE

#### The Agora Companies/ 14 West - DevOps Engineer

Platform Engineering • Baltimore, MD • December 2025 - Present

- Designed, deployed, and maintained highly available Kubernetes clusters (OKD/OpenShift) supporting multiple production applications across distributed environments
- Implemented GitOps workflows using ArgoCD, enabling automated, declarative deployments and reducing manual release errors
- Built and maintained CI/CD pipelines (Tekton, ArgoCD, Quay.io) to streamline application delivery and improve deployment frequency
- Managed containerized workloads using Docker and Kubernetes, optimizing resource utilization and scaling strategies
- Automated infrastructure provisioning and configuration using Terraform and infrastructure-as-code best practices
- Configured and managed ingress, routing, and TLS using tools such as Traefik, cert-manager, and Cloudflare integrations
- Troubleshoot complex production issues across distributed systems, leveraging logs, metrics, and tracing tools (Prometheus, Grafana, etc.)
- Improved system reliability and uptime by implementing monitoring, alerting, and incident response workflows
- Optimized cloud resource usage and costs within AWS environments through rightsizing and architectural improvements
- Collaborated with developers and cross-functional teams to improve system design, deployment practices, and operational efficiency

#### Amazon.com

Systems Development Engineer L4 • Arlington, VA • August 2024 - November 2025

- Spearheaded the migration of critical legacy monolith systems to microservices architecture, leveraging Docker and Amazon EKS (Kubernetes) to enhance scalability, fault isolation, and deployment velocity.
- Developed and maintained GitOps-based CI/CD pipelines using GitHub Actions, integrating infrastructure deployment, automated testing, and security scans.
- Designed AWS-based infrastructure supporting analytics pipelines and production workloads, improving availability to 99.99%.
- Automated system provisioning via Terraform, reducing manual configuration hours by 40%.
- Created observability dashboards (Grafana + Prometheus) to cut MTTR by 30%.
- Partnered with compliance to strengthen data protection and network security policies.
- Mentored three junior engineers, improving team onboarding efficiency and workflow automation.

#### Amazon Web Services (AWS) Software Development Engineering Intern

SDE Intern • Austin, TX • May 2024 - August 2024

- Designed and implemented backend features for an internal Amazon tool using Java and AWS Lambda, improving operational efficiency by 25% for the hosting team.
- Built RESTful APIs integrated with DynamoDB and API Gateway, following Amazon's microservices standards and ensuring scalability across multiple teams.

## Baney Networks

Engineer & Co-founder • Baltimore, MD • February 2023 - Present

- *Managed end-to-end operations including client onboarding, network setup, server/application deployment and security implementation.*
- *Provided expert guidance on IT strategies, cloud migration, and network design to enhance operational efficiency for diverse clients.*
- *Designed and implemented scalable cloud infrastructure using AWS, Azure, and GCP, enabling cost-efficient services for small and medium businesses.*
- *Deployed redundant systems to ensure business continuity and minimize risk of data loss or service interruptions.*
- *Oversaw multi-region cloud deployment for internal monitoring tools and customer networks.*
- *Managed CI/CD integration using GitHub Actions, reducing production rollback incidents by 20%.*
- *Led team adopting containerized microservices architecture, improving scalability and maintenance.*

## University of Maryland Medical System

EMT - Maryland ExpressCare • Baltimore, MD • February 2023 - April 2024

- *Delivered critical care transport services to high-acuity patients, ensuring timely and accurate medical intervention during transfers.*
- *Treated and transported high acuity Pediatric, Neonatal, Trauma, and medical patients such as STEMIs, Strokes, Cardiac Arrest, Cardiogenic Shock, ECMO, Balloon Pumps/ Impella, Invasive monitoring, critical care Obstetrics, and other acute time-sensitive conditions.*
- *Worked closely with paramedics, nurses, and physicians to deliver seamless patient care and improve outcomes.*
- *Developed data engineering pipelines using Python, facilitating efficient data processing and analytics for informed decision-making.*
- *Ensured all critical care transport equipment was functional and ready for emergency use, contributing to operational readiness.*

## R Adams Cowley Shock Trauma Center (UMMC)

Trauma Technician - Trauma Resuscitation Unit (TRU) • Baltimore, MD • December 2020 - January 2023

- *Supported physicians and nurses in the Trauma Resuscitation Unit, providing hands-on assistance during critical patient interventions.*
- *Ensured trauma bays were fully stocked and all medical equipment was operational to support rapid emergency response.*
- *Observed and documented vital signs and patient conditions, aiding in accurate diagnosis and timely treatment.*
- *Assisted in procedures such as Central Line and Arterial line placement, Chest tube placement, Thoracotomies, REBOA, Blood Product Administration, Large bore IV catheter placement, Ultrasound-guided IV placement, Foley placement, spinal immobilization, running point of care labs such as iStat and Rapid TEG.*
- *Assisted in hot offload of medivac helicopters, assisted in intake and admissions of critically ill trauma and critical care patients*
- *Served as a primary point of contact for EMT/Paramedic students and Liaison for military rotators from the U.S. Air Force and Walter Reed, facilitating hands-on learning experiences as a subject matter expert.*
- *Served as lead trainer for non-physician clinicians for Resuscitative Endovascular Balloon Occlusion of the Aorta (REBOA).*

## EDUCATION

### Bachelors of Science in Computer Science Minor in Math

University of Maryland Global Campus (UMGC)  
August 2023 - May 2026

### Bachelor of Science in Chemistry & Computer Science

University of Maryland Baltimore County (UMBC)  
August 2020 - May 2023 (Transferred to UMGC)

## TECHNICAL SKILLS

- **Cloud Platforms:** AWS, Azure, Google Cloud
- **Operating Systems:** Linux, Windows Server, ESXi, Proxmox, MacOS
- **Networking:** TCP/IP, DNS, VPN, Load Balancing, BGP
- **Programming Languages:** Python, Java, SQL, Bash, C++, JS, React, Node, Terraform
- **Web Development:** HTML5, CSS, JavaScript, PHP
- **Tools:** Git, Docker, Kubernetes, Jenkins, Prometheus, Jira, Ansible
- **Database Management:** MySQL, MongoDB, PostgreSQL

## VOLUNTEER EXPERIENCE

- **EMT/FF - Baltimore County Fire Department Station 35 Arbutus**
  - Served as Acting engine and rescue officer
  - Lead EMS preceptor
- **Founder of The Jonah B. Foundation**
  - CEO and Founder of the Jonah B foundation- a Non-profit organization to raise awareness for Seat belt use and other auto safety advocacy
  - Total public outreach of 7 million Marylanders and Americans during all campaigns.