



# JOSHUA WARD

DevOps Engineer

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 Morgantown, WV



Hi, I'm Josh! I've been around the block, but the past few years I've found myself in DevOps roles more often than not. I won't claim I've seen it all, but I've had the chance to work with most of the tools and technologies that make up modern DevOps practices (both on-prem and in the cloud). I'm passionate about containers (especially devcontainers), Kubernetes, Infrastructure as Code, Vim, Terminal User Interfaces (TUIs), and open-source in general. I've [contributed devcontainer documentation to Terragrunt](#) and I maintain [my own library of devcontainer features](#) on GitHub. I also contributed the [Helm values view](#) to K9s which is objectively the best Kubernetes dashboard, prove me wrong!

## WORK EXPERIENCE

Software Engineer IV  
(Solution Architect)

Leidos | 2022 - Present

Heavily focused on DevOps and consulting teams on all things Kubernetes, Terraform/Terragrunt, Docker and development environments, automation processes, performance optimizations, metrics/log aggregation/tracing, etc. Extensively worked with AWS. Migrated legacy on-prem projects to the cloud.

- Built entire libraries of Terraform modules and Terragrunt units and stacks.
- Built mature ansible collections used for pre-provisioning (e.g. building Packer AMIs), and post-provisioning (e.g. bootstrapping Kubernetes clusters).
- Built libraries of devcontainers used by development teams to take the headache out of local dev environment set up and reused in CI/CD pipelines.
- Heavily involved in building complex performance testing scenarios (in Kubernetes/AWS) scaling to millions of users over small periods of time.

Software Engineer III  
(Technical Lead)

Leidos | 2019 - 2022

Serving as the Technical Lead Engineer of a team building a Platform as a Service. This position has been heavily focused on developer tooling, DevOps, and building/deploying microservices.

- Responsible for leading the development of the PaaS reference implementation.
- Have pioneered some of the work related to container orchestration within the Leidos Morgantown office, including work with Kubernetes, Helm, Docker, and Skaffold.
- Have pioneered some of the work related to cloud infrastructure provisioning and continuous delivery within the Leidos Morgantown office, including work with Terraform/Terragrunt, Ansible, and Rancher/Fleet.
- Have worked with other notable tools and technologies such as Apache Kafka, Apache NiFi, MongoDB, PostgreSQL, Prometheus, Grafana, and Istio among others.
- Have worked with multiple cloud platforms including AWS/GovCloud, and GCP.
- Built a custom CLI (in my free time) that is now used by many developers leveraging our PaaS to streamline their local development experience.
- Have built and automated repeatable development environments (Docker, Vagrant, AWS Workspaces) that were provisioned using the aforementioned CLI.
- Hosted live training sessions for our PaaS leveraging the

## EDUCATION

MSc Electrical Engineering

West Virginia University

2015 - 2017

BSc Computer Engineering

West Virginia University

2010 - 2015

## SKILLS

### Technical

- Java
- JavaScript
- TypeScript
- Golang
- Python
- Bash
- Ansible
- Packer
- Docker
- Podman
- Kubernetes
- Helm
- Skaffold
- Terraform
- OpenTofu
- Terragrunt
- AWS
- Rancher
- Apache Kafka
- Jenkins
- GitLab CI
- Grafana
- Prometheus
- Loki
- Tempo

aforementioned development environments to streamline the process and ease the learning curve for new developers.

- Additionally serving as a Solution Architect for domain teams looking to modernize. Requires a deep understanding of modern tech stacks in order to consult effectively.

Software Engineer I

Leidos | 2017 - 2019

Served as a developer for multiple web application products. This position was primarily focused on both front and back end development using JavaScript and Java.

- Fulfilled development roles on the front end using JavaScript, HTML, CSS, Polymer, and React among other libraries.
- Fulfilled development roles on the back end using Java and RxJava among other libraries.

Graduate Teaching Assistant

West Virginia University | 2016 - 2017

Taught a computer engineering lab focused on x86 assembly language and interfacing with hardware.

- Demonstrated, taught, and graded a junior/senior level computer engineering lab.
- Held office hours to help students with both lab and course work.
- Graded technical lab reports.

Graduate Research Assistant

West Virginia University | 2015 - 2016

Worked with the West Virginia State Police Internet Crimes Against Children Unit (WVSP ICAC) as a Java developer and database administrator.

- Worked with a team using the Agile software development process.
- Had to adapt and learn new technology quickly.
- Worked with AngularJS, Apache Tomcat, Apache NiFi, Docker, MySQL, MongoDB, MVC concepts, and the Spring framework.

Undergraduate Research Assistant

West Virginia University | 2014 - 2015

Worked in the Biometrics Research Department where students operated equipment for biometric collections and wrote scripts to help automate the process.

- Took volunteers through different biometric collections including hand geometry, iris scans, fingerprints, and voice recordings among others.
- Wrote scripts to automate parts of the collection process.

Jaeger  
Istio  
Nginx  
Hugo  
Astro Starlight

Professional

Effective communication

Leadership

Strong problem solver