

# Michael Woods

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## Skills

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Kotlin, Java, Scala, Python, Rust, Go, JavaScript, TypeScript, C++, Bash

Kubernetes, PostgreSQL, Redis, Kafka, Docker, Gradle, Kong, Terraform, GCP, AWS, Auth0, Testcontainers, GitHub Actions

## Experience

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**Staff Engineer** Figure Technologies – Remote

July 2021 – Present

*Kotlin, Rust, Go, Kubernetes, Postgres, Kafka, Gradle, Docker, Testcontainers, GCP, Auth0*

- Spearheaded numerous improvements to the developer experience at Figure, including a suite of Gradle plugins for effortless service configuration and deployment, and a Gradle version catalog to prevent dependency conflicts, resulting in decreased setup time for new projects and fewer runtime errors.
- Took ownership of the design, implementation, deployment, and testing of an Auth0-based authentication system for a partner organization powered by Figure's technology, producing a deliverable within the allotted time budget.
- Served as a testing evangelist; oversaw an increase in the number and quality of tests across a multitude of services, leveraging Testcontainers to enhance service reliability and test reproducibility.

**Engineering Lead** Blackfynn – Philadelphia, PA

June 2019 – May 2021

**Senior Engineer**

Nov. 2017 – June 2019

*Scala, Python, AWS, Postgres, Docker, Rust*

- Designed and implemented a knowledge graph and data modeling system for the NIH SPARC program, resulting in increased grant funding.
- Conducted performance analysis and tuning on the core file upload and metadata search services of the Blackfynn platform, which reduced latency and increased request throughput.
- Core contributor to the Blackfynn Research Data Management Platform (RDMP), associated services, and developer tooling / libraries / documentation.
- Mentored two junior engineers, which led to their career advancement.

**Software Engineer** Intrinsic – San Francisco, CA

Apr. 2016 – Nov. 2017

*JavaScript, TypeScript, AWS, Docker, C++*

- Participated in designing and implementing Intrinsic's core product, a Node.js application runtime security technology that enforced access to system resources based on user-authorable, declarative security policies.
- Developed tools to analyze the transitive package dependency graph of a JavaScript program, revealing its potential attack surface and ultimately driving sales of the Intrinsic product.
- Created tooling to automate the virtualization of the Node.js standard library and popular third-party libraries like MongoDB.

**Software Engineer** Yelp, Inc. – San Francisco, CA

Aug. 2015 – Apr. 2016

*Python, MySQL, Jenkins*

- Collaborated across teams to improve the data quality (location, hours of operation, etc.) of businesses listed on Yelp, boosting Yelp's value proposition as a local business directory.
- Lowered the cost of Yelp's email sending infrastructure by researching and implementing methods to restrict eligibility for promotional emails.
- Contributed features and bug fixes to internal tools used by Yelp's community ambassadors, the front-line team promoting Yelp's benefits.
- Implemented consumer-facing features and bug fixes on the Yelp Android and iOS mobile applications.

## Education

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**University of Pennsylvania** – Master of Science in Engineering in Computer and Information Science

**Rutgers, the State University of New Jersey** – Bachelor of Science, Computer Science