Artemis Sparks

Work Experience

ProPublica

Principal Engineer

• Led ProPublica's website infrastructure team by creating a team strategy, team OKRs, weekly meetings, project goals, and by mentoring three engineers.

S artasparks.com

Seattle, WA

- Created a strategy for software security and privacy by identifying potential risks and proposing short-term and long-term mitigations.
- Coordinated the incident response team and postmortem analysis for 5 incidents.

Google, Google Kubernetes Engine (GKE)

Senior Software Engineer in Security, Tech Lead

- Led a project to improve the security of Kubernetes software supply chains, and in the process, established a vision, charter, roadmap, and organizational consensus on support for the project.
- Created a 24x7 oncall for Kubernetes security and led the response for one major security incident.
- Mentored three security team members to create supply chain auditing and reporting software in Go, which was used to identify and fix hundreds of supply chain issue across dozens of GKE-related projects.

Google, Google Kubernetes Engine (GKE)

Senior Software Engineer, Tech Lead

- Led a project and team to improve the stability, reliability, and velocity of GKE releases by standardizing and modularizing 100+ software packages comprising a GKE release.
- Mentored four engineers and collaborated with three partner teams to gather requirements, design the system, develop the roadmap, and implement the design.
- Successfully launched the new release system which improved the release by instituting a new qualification framework, fully-automating deployments, providing by-default monitoring, and providing new tooling for outages and incidents.

Google, Google Kubernetes Engine (GKE)

Software Engineer

- One of two founding members of GKE's production team, responsible for establishing monitoring, reliability standards, and incident response for GKE.
- Spearheaded a project to automate the expansion of new geolocations, resulting in 10+ new available Google Cloud zones for customers over the span of 3 years.
- Designed and implemented monitoring and auditing software for GKE clusters to detect and mitigate unauthorized internal access of customer data.

Google, Payments

Software Engineer

- Oversaw a team of three engineers to migrate Google's internal payments management system from Python to Java, AngularJS, and Material Design.
- Directly led the creation of 5 new accounting-focused payments tools, and collaborated on the migration and creation of 50+ payments tools, which provided new capabilities for KYC, risk, fraud detection.
- Developed batch payment transfer systems in Java to send and track disbursements for European customers, which when launched, handled tens of millions of dollars of disbursements monthly.

SocialMedia.com

Software Developer

• Created a web service in Scala to generate and analyze ads, which received millions of views.

May 2018 – April 2022 Seattle. WA

May 2016 - May 2018 Seattle, WA

Sept 2011 – May 2016

Sept 2010 - May 2011

Boulder. CO

Boulder.CO

April 2022 – April 2023

Seattle, WA

Seattle, WA

October 2023 – Present

☑ paxartemis@gmail.com **O** artasparks

in artasparks

Reed College September 2004 – May 2009

Thesis: Computational Complexity

Matchematics

Bachelor of Arts

Technical skills

Programming Languages	Go, Python, Javascript, Java
Technologies	Kubernetes, GKE, Docker, Google Cloud, Bazel, NodeJS, LaT _E X

Projects

Kubernetes Cluster Bundle

github.com/GoogleCloudPlatform/k8s-cluster-bundle

Designed and maintained the Kubernetes Cluster Bundle, which provides a novel packaging format and tooling in Go for Kubernetes resources, used by both Anthos and GKE releases.

Maktaba

github.com/google/vim-maktaba

One of six primary collaborators on an open source standard library for Vim plugins, which is used weekly by over 60,000 Google employees. One of three collaborators on the first VimScript style guide at Google, which we published externally at google.github.io/styleguide/vimscriptguide.

Otrego

github.com/otrego

Creator and maintainer of libraries written in Go to manipulate go game records. Published high quality fonts for printing go books and libraries for interacting with go AI engines. Led weekly meetup sessions from 2020-2021 dedicated to improving the libraries and mentoring new contributors.

Minigo

https://github.com/tensorflow/minigo

Collaborated with three other engineers to create a Kubernetes-based training for the machine learning project Minigo, an open source, from-scratch implementation of the AlphaGo AI system. After training, Minigo was able to achieve professional-level go capabilities.

GPub

github.com/artasparks/gpub

Creator and maintainer of GPub, a JavaScript library for publishing books for the game go. GPub was used to create and publish a 600 page compendium of go game reviews in 2016, *Relentless: Lee Sedol vs Gu Li.*

Talks

How Does Google Release Kubernetes in GKE GKE Releases Management and Strategy Building a Go AI with Kubernetes and TensorFlow KubeCon EU Cloud Next

KubeCon EU

May 2019 April 2019 May 2018

Dec 2013 - April 2023

Sept 2018 - April 2023

Jan 2018 - May 2018

Jan 2020 - 2022

Jan 2015 - 2017