Thomas Eckert

Personal Website
thomaseckert.dev

GitHub
t-eckert

LinkedIn
thomas-eckert

Personal Statement

Mentoring has been central to my career since I taught undergraduate physics as part of my Masters. My goal is to consistently grow as an engineer and empower others.

Skills

- Go
- Rust
- Python
- C#
- TypeScript/JavaScript
- Envoy
- Kubernetes

Podcast Appearances

- JS Party 270
- Does Not Compute

Professional Development

- GopherCon 2023 Lightning Talk "'Tis But a Scratch: Shrinking Container Images Using FROM scratch"
- Leads weekly book club on cloud native development and foundational computer science papers.
- Active contributor to open source.

Work Experience

Software Engineer II Since August 2021
HashiCorp
Consul

- Designed and implemented API Gateway for Consul as part of a team.
- Led a team of 4 engineers to implement the Gateway API specification for Consul on Kubernetes.
- Worked with dozens of enterprise customers to solve networking challenges for microservice deployments on the order of 10k services.
- Empowered customers by adding Envoy debugging capabilities to the Consul on Kubernetes CLI.
- Mentored two interns who both contributed code into production and received return offers.

Software Engineer I July 2018 to July 2021
Microsoft
Azure Quality Initiative

- Built an internal service to validate and track service level objectives used by 1,400 teams within Azure.
- Developed a streaming pipeline for data scientists analyzing observability logs from Azure's internal EventHydrant platform.
- Led labs at PyCon for 450 attendees demonstrating applications of Python on Azure.
- Optimized availability monitoring across the organization, saving $60,000 per year.

Education

MA in Nuclear Physics 2016 to 2017
University of Rochester
Laboratory for Laser Energetics
Developed Monte-Carlo simulations using C++ for fusion diagnostics and predicting yield from nuclear reactions.

BS in Physics 2012 to 2016
Houghton University
Published research on the Efficiency Calibration of Sodium Iodide Detectors for Measurement of the Carbon-12 (n, 2n) Carbon-11 Cross Section. Presented this research at two international conferences in plasma physics.