

Edward E Griebel Jr.

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Skilled Staff Software Engineer with consistent success in building and improving systems across multiple industries while making teams more productive. Adept at solving complex business challenges by partnering with others.

Professional Work Experience

Solution Lead, Solu Technology Partners

September 2024 – Present

Technical lead for development teams, focusing on Artificial Intelligence initiatives.

Staff Software Engineer (SRE), Netskope

August 2023 – September 2024

Lead a team of Site Reliability Engineers to support Netskope's data-loss prevention product by aligning deliverables with partner roadmaps, including hands-on engineering and participating in oncall rotations.

- Partnered with development team to migrate Kubernetes deployments (private cloud and FedRAMP) to Spinnaker.
- Automated manual process to calculate data center cost savings using Python and Jenkins. Compressed data gathering and analysis to 15 minutes from eight hours and reduced data center spend by \$35,000 in the first month.
- Implemented improvements in on-call and change management procedures to improve productivity and stability.
- Mentored and leveled up team members and ensured that work was supportable and of sufficient quality.

Technologies: Python | Kubernetes | Grafana | Prometheus | Spinnaker | Jenkins

Production Engineer, Meta

August 2021 – July 2023

Member of Enterprise Provisioning team that automated creation of thousands of physical and virtual machines, and Ad Serving team that dynamically allocated capacity to Machine Learning models for Facebook and Instagram ads.

- Automated firmware updates for multiple hardware vendors across 10,000+ physical servers. Saved a week of effort for each upgrade of each cluster by eliminating ad-hoc processes.
- Enhanced customer experience by improving documentation, procedures, and automating detection and troubleshooting of errors. Reduced on-call load from 20 hours per week to less than five.
- Supported and enhanced systems to create/update baremetal and virtual machines using Python, VMWare and Chef.
- Led project to centralize configuration changes to ML/AI models in Meta's ad delivery stack, allowing machine learning engineers to safely make changes while avoiding unintended problems or outages.

Technologies: Python | Rust | SQL | Terraform | Chef

Lead Software Engineer, Marqeta

2020 – 2021

Technical lead for credit card processing including accounting ledgers and inbound transaction APIs.

- Worked closely with developers, product owners, and operations to create a new white-label credit card product.

Technologies: Java | MySQL | Spring Boot | Docker

Principal Software Engineer, Catalant Technologies

2019 – 2020

- Researched issues with performance and stability issues and initiated projects to address them.

Technologies: Python | Flask | JavaScript | Bootstrap | MySQL | Docker | Elasticsearch

Senior Middleware Architect, Paychex

2013 – 2019

- Created system to rebalance 24,000 databases among 200 Azure servers with statistical and ML-based techniques.
- Replaced a bespoke system with AppDynamics across 20,000 JVMs to track inventory and metrics, saving 4 FTEs.
- Created custom Chaos Monkey to regularly terminate middleware and Java processes randomly.
- Built single source of truth inventory system using relationships from Puppet, ServiceNow, and Oracle.

Technologies: Java | JavaScript | Python | Scikit-Learn | SQL | AppDynamics | Machine Learning

Additional Selected Experience

Adjunct Professor, Rochester Institute of Technology

- Lecturer for courses in Java, SQL/DBMS, Python/shell scripting, and commercial software engineering practices.

Consultant/Subject Matter Expert - Logical Operations

- Consulted and created teaching materials for Machine Learning, Artificial Intelligence, and Data Science courses.

Education

Master of Science in Computer Science - Georgia Institute of Technology

- 3.9 GPA. Coursework: Compiler Optimization, CPU Architecture, LLVM Software Analysis, Applied ML and AI

Bachelor of Science in Computer Science and Engineering - Bucknell University