

# Edward E Griebel Jr.

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Staff Software Engineer with consistent success in building systems, mentoring, and making teams more productive.  
Adept at partnering with people and teams to solve complex business challenges.

## Professional Work Experience

**Lead Software and Solution Engineer**, Paychex (via Solu Technology Partners) September 2024 – Present

Leading an Agile team of SWEs and SDETs to deliver functionality for a large monolith and microservice-based payroll and HR benefits processing system.

- Delivered feature to recapture \$700,000 annually in payments to terminated workers, including partnering with outside vendor across multiple release phases.
- Created tooling and process to validate annual billings for 600,000 clients during migration to a microservice.

Technologies: Python | Java | Azure Cloud | Oracle SQL | Splunk

**Staff Software Engineer (SRE)**, Netskope August 2023 – September 2024

Led a team of Site Reliability Engineers to support Netskope's data-loss prevention product.

- Partnered with dev teams to migrate Kubernetes deployments (private cloud and FedRAMP) to Spinnaker CI/CD.
- Automated manual process to calculate data center cost savings using Python and Jenkins. 97% reduction in data gathering and analysis time (eight hours to 15 minutes) 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.

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. Eliminating ad-hoc updates across 25 clusters saved nearly a week of effort every quarter for each cluster.
- Reduced on-call load by 80%, down to a half-day per week, by improving documentation, implementing intake processes, and automating error detection and troubleshooting.
- Supported and enhanced systems to create/update bare metal and virtual servers using Python, Terraform, and Chef.
- Led project to centralize configuration changes to ML/AI models in Meta's ad delivery stack so AI Engineers could focus on model tuning while avoiding unintended problems or outages.

Technologies: Python | Rust | SQL | Terraform | Chef

**Lead Software Engineer**, Marqeta 2020 – 2021

Technical lead for new white-label credit card product including transactional ledgers and inbound transaction APIs.

Technologies: Java | MySQL | Spring Boot | Docker

**Principal Software Engineer**, Catalant Technologies 2019 – 2020

Researched and created plans to tackle core performance and stability issues, and fostered satellite office's culture.

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 ML and statistical techniques.
- Replaced a bespoke inventory system with AppDynamics to track metrics across 20,000 Java JVMs, saving 4 FTEs.

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 and Subject Matter Expert**, Logical Operations

- Created and advised on teaching materials for Machine Learning, Artificial Intelligence, and Data Science courses.

## Education

**Master of Science in Computer Science** - Georgia Institute of Technology, 2023

**Bachelor of Science in Computer Science and Engineering** - Bucknell University