

# Edward E Griebel Jr.

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## SUMMARY

As an accomplished full stack developer with more than 20 years of consistent success across multiple industries and diverse languages and tools, I am deeply passionate about writing code and collaborating with others to design and deliver innovative systems that address complex business challenges.

Leveraging 7 years of remote experience, I excel in working effectively in both remote and on-site environments, as well as hybrid work arrangements.

Advanced or Expert knowledge of: Python, Java, SQL, Linux, Agile team leadership, Mentoring

## PROFESSIONAL WORK EXPERIENCE

### Meta (Facebook)

August 2021 – Present

Production/Software Engineer

At Meta, a Production Engineer is a hybrid of Software Engineer, Site Reliability Engineer, and Systems Engineer roles who create reliable, scalable, performant, and secure services for billions of users.

My team, Ads Serving and Delivery, automates the dynamic allocation of Machine Learning models to compute servers for all ads displayed in Facebook and Instagram.

- Led project to centralize configuration changes to ML/AI models in Meta's ad delivery stack, allowing users to safely make changes without causing unintended problems or outages.

My prior team created systems to automate creating thousands of new physical and virtual machines by simply editing files.

- Created system to automate firmware updates for multiple hardware vendors across 10,000+ physical servers. This system eliminated creating ad-hoc scripts or manually updating servers, saving days or even weeks of effort for each team supporting a cluster of servers.
- Improved oncall and user experience by creating internal documentation, processes, and applications to detect and perform initial troubleshooting of common errors. These changes reduced oncall shift impact by 60% to under 5 hours per week.

Technologies: Python, Rust, SQL, Terraform

### Rochester Institute of Technology

2017 – Present

Adjunct Professor – Part-Time

- Currently teaching course in software engineering practices used in industry.
- Previously taught courses in Java and DBMS/SQL.

### Logical Operations

Periodically since 2020

Consultant – Part-Time

- Created teaching materials and was consulted for new courses in Machine Learning, Artificial Intelligence, and Data Science.

### Marqeta Inc.

2020 – 2021

Lead Software Engineer

- Tech lead for Credit accounting ledgers and inbound transaction APIs. Worked closely with developers, product owners, and operations to create a new service for customers to offer white-label credit cards.
- Established/enhanced processes and procedures for product development and support.

Technologies: Java, MySQL, Spring Boot, Docker

### Catalant Technologies

2019 – 2020

Principal Software Engineer

- Determined and created immediate and 1-year plans to address performance issues impacting product stability and scalability. Negotiated with managers, product owners, and CTO for resources and prioritization.
- Built consensus around and implemented processes and procedures for primary SaaS product to improve long-term supportability and developer productivity.

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

**Paychex** 2013 – 2019 and 2005 – 2010  
 Senior Middleware Architect

- Created Python system to rebalance 20,000 databases among 200 Azure cloud pools with statistical and ML techniques.
- Created custom Chaos Monkey to regularly terminate middleware and Java processes randomly.
- Integrated AppDynamics APM to track inventory and metrics on over 20,000 JVMs, replacing a bespoke system that saved 4 FTEs annually.
- Led team of 6 to create three public-facing fullstack Java/JavaScript applications.

Technologies: Java, JavaScript, Python, Scikit-Learn, TensorFlow, Oracle PL/SQL, AppDynamics, Application Performance Monitoring

**Axeda** (division of PTC)  
 Senior Software Engineer  
 Owned the integration, performance tuning, and upgrade of Cognos Business Intelligence modules.  
 Internal technical consultant for professional services and product management teams.

**Frontier Communications**  
 Created Java applications to build DSL circuits and track sales commissions.  
 Automated generation of Excel spreadsheets from Hyperion EssBase saving 2 FTEs annually.

**Global Crossing** (division of Level3)  
 Led multi-site teams to create Java and Perl CGI telecom applications.

**JP Morgan Chase**  
 Created trading systems in C/C++ and Excel for equity derivatives and HFT trading desks.

**BlackRock Financial Management**  
 Developed systems in C/C++ for MBS mortgage, Treasury, and Repo trading desks.

## EDUCATION

**Georgia Institute of Technology**  
 M.S. in Computer Science *Expected Summer 2023*

- Coursework includes Algorithms, Compilers, Computer Architecture, Software Analysis using LLVM, ML for Trading, and AI Techniques for Robotics

**Bucknell University**  
 B.S. in Computer Science and Engineering

- Senior design project creating reference implementation of DHCP protocol for RFCs 1531 and 1534
- Concentrations in Digital Electronics and Geology

**CERTIFICATIONS** **AppDynamics Certified Implementations Professional** November 2016

**AWARDS** **Paychex Paragon Award for Resiliency**, Paychex January 2019  
 Our project, "Adaptive Load Balancing", was chosen for this annual award. It routes requests in F5 BigIP GTM and LTMs across servers and data centers based on server load, real-time statistics, and other measures to reduce outages and improve response times for services using it.

**AppDynamics Scale Award**, AppDynamics November 2015  
 Awarded by AppDynamics for successfully deploying the tool to over 2,000 JBoss, WebLogic, and Windows IIS servers across our fleet in the first year.

[Resume created 2023-05-07 in ~~La~~TeX. See it at [github.com/edgriebe1](https://github.com/edgriebe1)]