

# Edward E Griebel Jr.

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## SUMMARY

I am a full stack developer with over 20 years of consistent achievement solving diverse business problems. My wide breadth of experience in multiple industries, languages, tools, and third-party applications demonstrates success. I am passionate about creating code to deliver high quality useful software, which results in systems that support business growth.

Advanced or Expert knowledge of: Python, Java, SQL, team leadership, mentoring of staff at all levels

## PROFESSIONAL WORK EXPERIENCE

### Meta (Facebook)

August 2021 – Present

Production Engineer

At Meta, a Production Engineer applies software engineering techniques to achieve reliability, scalability, performance, and security goals.

- Created system to automate firmware updates for multiple hardware vendors across 10,000 physical servers. This enabled me to decommission an obsolete application supported only by my team, reducing our support burden.
- Improved oncall and user experience by improving documentation, revamp internal processes, and creating applications and scanners to detect and automatically troubleshoot common error conditions. Changes resulted in reducing oncall shift impact from 15+ hours per week to less than five.
- Lead project to implement centralized configuration changes to AI models in Facebook ad delivery stack. Effort involved identifying problematic areas and user education while ensuring these changes resulted in zero downtime or other negative impacts to ads serving stack.
- Mentored junior and senior developers in technical and professional skill development.

Technologies: Python, Rust, SQL

### Rochester Institute of Technology

2017 – Present

Adjunct Professor (*part-time*)

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

### Marqeta Inc.

2020 – 2021

Lead Software Engineer

- Worked closely with peer developers, product owners, and operations teams to create a greenfield system to support a new credit card product including processing, accounting, statementing, and user-level APIs.
- Established/enhanced processes and procedures for product development and support.
- Mentored and guided other engineers with designs and general software engineering practices.

Technologies: Java, MySQL, Spring Boot, Docker, jOOQ

### Logical Operations

Occasionally since 2020

Consultant

- Created teaching materials and consulted on industry best practices for new courses in Machine Learning, Artificial Intelligence, and Data Science.

### Catalant Technologies

2019 – 2020

Principal Software Engineer

- Determined performance issues impacting product stability/scalability and worked with technical managers, product owners, and engineering management for prioritization and resolution.
- Created, built consensus around, and implemented processes and procedures to improve developer productivity and long-term supportability of primary SaaS product.
- Mentored and guided junior developers in industry best practices and product platform.

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

### Paychex

2013 – 2019

Middleware Architect

- Created system in Python to rebalance 20,000 databases among 200 Azure cloud pools with algorithmic, statistical, and machine learning techniques using TensorFlow, Pandas, and scikit-learn.

- Built internal inventory system with web and REST APIs providing a single source of truth for virtualized and physical hosts, JVMs, CLR, databases, and middleware. Relationships sourced from external management systems including AppDynamics, Puppet, ServiceNow, and Oracle.
- Created custom Chaos Monkey implementation that would randomly kill middleware appliances and Java processes daily in multiple environments.
- Implemented AppDynamics on over 20,000 JVMs to replace a custom built system that collected and monitored JVM metrics, saving four FTEs annually.

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

#### **Axeda** (division of PTC)

2010 – 2013

Senior Software Engineer

- Owned the integration, performance tuning, and upgrade of Cognos Business Intelligence module.
- Internal technical consultant for professional services and product management teams.

#### **Paychex**

- Lead team of five to create three public-facing fullstack Java/JavaScript applications. Created CI/CD deployment pipeline with Hudson. Mentored new developers and delivered technical training.

#### **Frontier Communications**

- Created Java applications to build DSL circuits and track sales commissions. Automated generation of Excel spreadsheets from Hyperion EssBase saving \$200,000 annually (two FTEs).

#### **Global Crossing** (division of Level3)

- Lead multi-site teams to create Java and Perl CGI telecom applications.

#### **JP Morgan Chase**

- Created trading systems in C/C++ and tactical applications 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*

#### **Bucknell University**

B.S. in Computer 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 in  $\LaTeX$ , check it out at [github.com/edgriebe1](https://github.com/edgriebe1) !]