

Edward E Griebel Jr.

edgriebel@gmail.com • 585-705-1093
github.com/edgriebel • linkedin.com/in/edgriebel

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 Engineer

At Meta, a Production Engineer is a hybrid of Software, Site Reliability, and Systems Engineering disciplines to achieve reliability, scalability, performance, and security goals for services with 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. My prior team created systems to automate creating thousands of new physical and virtual machines by simply editing files.

- Led project to centralize configuration changes to ML/AI models in Meta's ad delivery stack, allowing users to safely make changes without causing negative impacts.
- Created system to automate firmware updates for multiple hardware vendors across 10,000+ physical servers. This system eliminated days or weeks of effort for each team supporting a cluster of servers, as prior process required each cluster owner to either manually update each server or create customized ad-hoc update scripts.
- 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 five 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 consulted on industry best practices 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.
- Mentored engineers with designs and general software engineering practices.

Technologies: Java, MySQL, Spring Boot, Docker

Catalant Technologies

2019 – 2020

Principal Software Engineer

- Determined performance issues impacting product stability/scalability and negotiated with technical managers, product owners, Lead Architect, and CTO for resources, prioritization and resolution.
- Built consensus around and implemented processes and procedures for primary SaaS product to improve long-term supportability and developer productivity.
- Mentored junior developers in industry best practices and product platform.

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

Paychex 2013 – 2019
 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 saving four FTEs annually.

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

Axeda (division of PTC) 2010 – 2013
 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.

Paychex

Led team of five to create three public-facing fullstack Java/JavaScript applications.
 Created CI/CD deployment pipelines with Hudson.

Frontier Communications

Created Java applications to build DSL circuits and track sales commissions.
 Automated generation of Excel spreadsheets from Hyperion EssBase saving two 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 in ~~La~~TeX, check it out at github.com/edgriebel]