

Michael Teter

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Senior Software Engineer, IT Solution Provider

I build software and systems with the primary goal of making people's lives better:

- ☆ empowering - enabling users to focus their time and energy on important activities
- ☆ efficient - achieving higher performance with fewer, simpler requirements
- ☆ reliable - reducing time spent on problems or maintenance
- ☆ accurate - minimizing revenue loss and customer disputes
- ☆ holistic - balancing immediate needs, constraints, and future priorities

Because I strive to deliver ideal solutions, I have explored many technologies and approaches throughout my career. This breadth of experience helped me develop an intuitive sense of what's possible, which approach will be most effective, and which decisions will stand the test of time.

Elixir/Phoenix Liveview example:

➔ <https://crossfiregame.com> | <https://github.com/michaelteter/crossfiregame>

Overview

- Flexible generalist developer, architect, and problem solver with over 20 years of experience
- Production experience with multiple programming languages, frameworks, RDBMSs, OSs
- Backend development, IT infrastructure architecture and management, consulting, teaching/mentoring, and UX/Usability
- Constantly growing and improving my skills

Technologies

Primary

- Programming Languages and Frameworks: Elixir/Phoenix, Ruby/Rails, Python
- Databases: PostgreSQL, MySQL

Additional

- Clojure, JavaScript, Java, C, C++, Unix/Linux shell, Oracle, MS SQL, others

Work Experience

Stealth Project, remote

2024-03 to Current

- Skills: Elixir/Phoenix LiveView, PostgreSQL
- Developing a platform to compete in a \$10B/year industry

Freelance / Software Engineer and IT Generalist, remote

2015-09 to 2023-11

- Skills: Ruby/Rails, Elixir/Phoenix, PHP, PostgreSQL, MySQL, Bitcoin, Stellar, WordPress/WooCommerce, integration
- Developed custom web applications for retail and content management
- Built custom integrations between web backends and e-commerce systems, enabling seamless connections between multiple platforms and payment systems
- Built custom bi-directional payment gateways for Bitcoin and Stellar networks

Biller.AI / Senior Software Engineer / Netherlands, remote

2022-01 to 2022-07

- Skills: Python, Django, MySQL, SCRUM, mentoring
- Developed APIs for internal and external clients
- Demonstrated functional programming and software architecture approaches that emphasized code reusability, readability, and testability (faster tests with more coverage and significantly fewer lines of test code)
- Reviewed all code PRs and paired with junior devs to guide them toward better practices (single responsibility principle, reduced coupling, functional purity where appropriate)
- Promoted effective and time-efficient SCRUM practices leading to improved product delivery

YoungCapital / Senior Software Engineer / Netherlands, remote

2020-01 to 2021-09

- Skills: Ruby/Rails, MySQL, Redis, SCRUM Master, mentoring, architecture
- Developed web applications and APIs
- Introduced elements of functional programming and a service-based approach to the company's monolithic development practices
- Reviewed peers' and juniors' code
- Coached junior developers on backend topics and pragmatic + functional programming
- Developed data-driven workflow management system to streamline HR onboarding and offboarding, reducing an error-prone 2 week business process to a 3-4 day process with no chance of gaps or lost candidates
- Contributed to UX designs and product/business system designs
- Planned and implemented major application version migration in incremental, mostly invisible stages with beta and production users
- Optimized backend data management - RDBMS and caching within cloud environment - to reduce cloud costs while increasing speed

IMC / Software Developer and Infrastructure Manager / Netherlands, Amsterdam

2012-09 to 2015-08

Software Development

- Skills: Ruby/Rails, PostgreSQL, MySQL, Clojure, Go, Excel/VBA
- Developed web, server, and integration systems
- Built custom integrations between Excel and internal systems which greatly simplified recurring mid-office trade reconciliation processes while reducing errors
- Redesigned and implemented very large Excel application, reducing open/startup time from 5 minutes to 10 seconds while also vastly increasing runtime performance
- Improved performance and resilience of recurring large data ingestion processes while

reducing human change management and troubleshooting effort

- Developed optimal data backup and retention system with Bacula, interchangeable JBODs, and business user-friendly Excel retention policy management interfaces

Infrastructure Management

- Skills: VMware/vSphere, MS Windows Server, Linux, Tintri, Bacula, System Architecture, Vendor Management
- Identified multiple weaknesses, risks, and shortcomings of original IT infrastructure
- Researched and devised multiple potential solutions
- Illustrated clear, detailed strategies of replacement systems - including traditional onsite hardware, virtualized onsite hardware, and cloud -, each of which included initial and ongoing budget estimates and pros and cons
- Presented proposals to executive management and key stakeholders, resulting in a selection of an approach (onsite virtualized) and budget approval
- Researched and selected hardware and software vendors, involving key stakeholders in evaluation and decisions where appropriate
- Managed vendors and hardware/software acquisition
- Managed and in some cases personally executed implementation plans of hardware and software
- Designed server rooms and facilities for New York and Amsterdam offices
- New infrastructure provided multiple benefits:
 - high availability with data consistency between US and NL
 - vastly increased compute performance for existing software systems
 - greatly simplified financial analysis and model backtesting experiments via rapid compute provisioning and versioning
 - virtually eliminated hardware failure recovery time

Freelance / Software Engineer and IT Generalist / US, remote

2011-03 to 2012-07

- Skills: Ruby/Rails, PostgreSQL, MySQL, Consulting
- Developed e-commerce web applications
- Guided non-technical business leaders on technical topics and solutions

Martin Dawes Analytics (Lavastorm) / Software Engineer / Global, remote

2008-03 to 2011-09

- Skills: Ruby/Rails, Oracle, Lavastorm Analytics Engine, Technical Training, Consulting
- Developed custom web applications and data analytics integrations for Fortune 100 clients
- Enabled major telecom companies to recover millions of lost revenue by building accurate business rule simulations and switch-to-bill reconciliation reports and insights
- Trained and supported global clients in person and remotely

Jetta Operating Company / IT Director / US, Texas, Fort Worth

2001-05 to 2008-01

- Skills: Java/JSP, Ruby/Rails, Python, MS SQL Server, VB/MS Access
- Planned and grew corporate IT infrastructure as the company tripled in size
- Developed custom software solutions for oil and gas equipment management, employee time tracking, and client/partner reporting

- Managed vendors and IT support providers
- Developed custom ETL solutions for ingesting disparate data from acquisitions

Previous Work

1993 to 2001

- Companies: TeleCheck, IBM, NEC America, CompUSA, St. Gobain, Ensemble Studios, MCI/Worldcom
- Skills: C, C++, Java, X/Motif, Ingres, Unix shell, ...
- Developed components and tools for AAA computer game
- Developed manufacturing monitoring and management systems
- Designed large data migration solutions for national-scale network monitoring systems
- Built countless tools and integrations for peers and clients
- Developed GUI applications for aircraft maintenance management systems

Education

Principia College / Bachelor of Science, Computer Science / US, Illinois

1989 to 1993