

# 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:

- ☆ better tools - enable users to focus their time and energy on more important activities
- ☆ more economical - faster, lower energy, lower hardware requirements
- ☆ more reliable - less human time spent on problems or maintenance
- ☆ more accurate - less revenue loss, fewer customer disputes
- ☆ situation optimal - balancing concerns and priorities with appropriate designs and tools

Because I strive to provide ideal solutions, I have explored many technologies and approaches in my career. Applying this breadth of awareness to many scenarios has helped me develop an innate sense of *What is possible*, *What approach is most effective*, and *What decisions will we regret least in the future*.

## 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 improving my skills and learning new tools; always open to new possibilities

## Current Technologies

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

## Previous Technologies (available within a couple weeks of notice)

- Clojure, Python, 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 / Netherlands, 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 delivery
- 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 (freelance) / Netherlands, remote

2022-01 to 2022-07

- Skills: Python, Django, MySQL, SCRUM, mentoring
- Developed APIs for internal and external clients
- Demonstrated functional programming and organization approaches that emphasized code reusability, readability, and testability (reduced test code but higher test coverage and faster CI test cycles)
- 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
- Helped major telecom companies recover millions of lost revenue by building accurate business rule simulations and reconciling billing with usage data
- 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 company tripled
- 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