

# George Mauer

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I am a people-and-product obsessed technical leader with over fifteen years experience focusing on architecture, simplicity, and building effective teams. Most recently working in Principal Developer and other technical leadership roles, I am always focused on user empathy, building secure yet flexible systems and teams that are empowered to use and improve them.

I speak at conferences, have mentored dozens of software devs, have written popular articles, and been interviewed for a variety of podcasts and publications. I suppose that makes me an industry leader.

## Buzzwords

**Software Architecture, Test Driven Development, Software Design, Web Development, TypeScript, Javascript, Python, C#, Domain-Driven Design (DDD), React.js**, Staff Engineering, React Native, Agile, Design Patterns, Database Design, Microservices, Project Management, Cybersecurity, Product Management, Object-Oriented Programming (OOP), Terraform, DevOps, Github Actions, Technical Writing, ASP.NET MVC, .NET, HTML, CSS, AWS (Lambda, EC2, SQS, SNS, EventBridge, Bedrock, EKS, etc), Kubernetes, Google Cloud Platform (GCP), jQuery, Emacs, CSS, AngularJs, Java, SQL, Powershell, Node.js, Next.js, Open Source, Community Development, Public Speaking, Team Building, Mentoring, Training, Functional Programming, Lisp, Data Science, SOLID Design Principles, Racket, Clojure, MLOps, Model Context Protocol (MCP)

## Achievements

- Co-Organizer of [NOAI 2023](#), the New Orleans AI Conference and subsequent conferences.
- Committed code to jQuery. Mentioned in the [jQuery 2.2 changelog](#)
- Discovered a - still unpatched - vulnerability in Excel and Google Sheets which allows exfiltration of data when viewing csv files. [Blog post on this was #1 on Hacker News and Programming Reddit](#)
- Presented at many conferences and usergroups - Keynote speaker at Jazzcon 2017
- [Stackoverflow reputation > 120,000](#)
- Frequently interviewed and cited over article and thoughts on how to [and not to structure developer interviews](#)

## Experience

Engineering Lead, Delivery TeamNinety

Sept 2024 - April 2025

Oversaw move from complex, quasi-manual monolith deployment process (cataloged at 92 steps) to a single slackbot-triggered and then 0 steps as we automated to scheduled daily deploys.

Lead project that cust costs of automated test infrastructure from \$70K/year to a projected \$30K/year.

Created tools to statically analyze a large, complex codebase identifying and making visible hidden dependencies and charting out a path for moving from monolith to microservices.

Contributed directly to delivery pipeline automation work by building out infrastructure for continuous deployment of Cloudfront proxy with Terraform. Created a variety of reusable modules for managing AWS.

Director of Software Engineering - compare to Principal DeveloperBlocpower

November 2022 - August 2024

Spearheaded the successful standardization and documentation of cloud infrastructure, driving the transition to infrastructure-as-code across multiple critical projects, significantly enhancing business and platform stability.

Played a pivotal role in shaping departmental strategy through impactful contributions to planning, team structure, and resource allocation discussions. Lead a team, encouraging professional growth for all through regular coaching and mentoring.

Took ownership of Blocpower's flagship SaaS product. Designed and led efforts to dramatically improve performance, stability, and the ability to monitor the application in production.

Acted as both product manager and tech lead for the Building Data Collective project, building a proof of concept privacy-respecting data platform for the Bezos Earth Fund on top of emerging web standards. Ensured clear direction and purpose in collaboration with contractors and university researchers and students.

Principal Developer, Engineering ManagerFindhelp.org

February 2021 - November 2022

Transformed one of the most challenging areas of the data model by identifying and resolving a complex set of long-standing bugs, significantly improving the accuracy and integrity of customer data.

Worked across teams to enhance development workflows, tackle product-wide technical debt, and successfully mitigate a range of security vulnerabilities and accessibility issues. Developed debugging and testing processes and tools to help developers investigate and address issues rapidly and early.

Stabilized and led a critical engineering team through completion of key roadmap projects during an organizational and staffing transition. This resulted in promotions for over half of the team.

CTO - compare to Lead ArchitectOperation Spark

February 2020 - January 2021

Built and led multiple teams of junior developers through their inaugural professional projects successfully transforming them into proficient team contributors through tailored coaching, mentoring, and support.

Designed and built out native micro-services architecture on top of Localstack. This allowed junior developers to focus on tangible delivery while charting out a roadmap for future scaling.

Collaboratively developed and a strategic business development plan with the CEO and COO, leading to increased client engagement. Operated as the sales engineer, regularly meeting with prospective clients, building out, estimating, and pitching project proposals.

Director of Development - compare to Principal DeveloperSurge Consulting Group

November 2016 - October 2019

Lead a multitude of successful medium and large software projects developing applications for a variety of clients. This included working in C#, Javascript, Node, WPF, Python, Docker, and many other technologies.

Designed and implemented an interview process that allowed the company to grow from 20 to almost 250 senior developers. Personally conducted nearly 200 technical interviews. Started and administered a mentoring program. Started and administered a weekly developer show-and-tell to cross-pollinate knowledge.

Lead developer and architect for internal skunkworks projects that provided an operations platform on which Surge did invoicing, staffing, and hiring.

Managed developer-related escalations, conducted 1-1s, and contributed to corporate strategy decisions.

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Senior Software Developer  
Surge Consulting Group

June 2011 - November 2016

Worked on a variety of complex web applications and backend projects with a heavy use of Javascript, AngularJs, c#, React, jQuery, F#, and more.

Led multiple teams working with clients such as Verizon, Oliver Wyman, and AppleHms.

Served as the developer evangelist within the company helping arrange and leading multiple programs that enabled the Surge developer community to scale as the company grew 10x in size.

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Senior Software Developer  
CoDE/EPS Software

January 2010 – June 2011

Worked for the consulting branch of one of the most renowned companies in the .Net space. Worked on large multi-million dollar custom systems ranging from WPF to ASP.Net MVC to the CoDE Milos Framework.

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Lead Software Developer / Systems Architect  
Westway Holdings

August 2007 – February 2010

Designed and developed applications in ASP.NET and WinForms for a large multinational corporation. Refactored legacy code to be more compliant with principles of loose-coupling and separation of concerns.

Built relationships with and managed an outsourced team using an Agile approach including iterations, and continuous integration. Instituted previously lacking source control, issue tracking, and test driven development policies.

Involved in all stages of the software lifecycle: gathering of requirements, discussions with domain experts, system architecture, iteration planning, management of developers, implementation, testing, quality assurance, administration, and the gathering and assessment of requirements.

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Freelance Developer / Owner  
Humble Pi LLC

January 2007 – Present

Developed web applications through a daily use of PHP, ASP, Oracle and MySQL. Responsibilities included full-blown site and database design, documentation, and some light graphic design

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Web Application Developer  
Mudbug Media

January 2006 – May 2007

Developed web applications through a daily use of PHP and ASP, Oracle and MySQL.

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Principal at Resultsoft LLC

December 2006 – January 2007

Co-founded Resultsoft LLC and authored a Small Business Innovation Research (SBIR) Grant proposal to the Institute of Education Sciences (IES) for an educational videogame capable of using specific modern game-design concepts capable of rousing student interest in mathematics to an unprecedented level.

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Research Assistant in Image Processing and Analysis  
Advanced Missile Defense Research Group, Tulane University

September 2004 – September 2005

Contributed to all phases of a project for the automation of land surveying through the use of LIDAR (Laser Imaging Detection and Ranging) and other publicly available data.

Thesis work - SEGWORK - A Matlab Framework for Image Segmentation: Developed a set of Matlab libraries and an application for processing of LIDAR airborne laser scanner data. This involved extensive academic research into trends in image processing as well as the implementation of many of these into small modules capable of interacting with each other.

# Projects and Volunteering

Operation Code  
Mentor

Offer frequent help, mentoring, debugging, and career advice sessions to online community of vets working in or transitioning into tech

Operation Spark  
Teacher / Curriculum writer / Mentor

Helped build curriculum, designed and taught Boot Camp programs in high schools and the New Orleans Juvenile Detention Center. Lectured and conducted town hall-style meetings with students in classes. Mentored and served as an on-site professional developer resource.

Tulane University  
Guest Speaker

Occasional guest speaker in the Tulane University Computer Science and Communication departments. Discussed everything from software architecture, to javascript, and open source.

org-ai Github

Contributor to popular project bringing the ability to interact with AI bots directly from Emacs Org-mode

gimgen Github

Extremely experimental (yet working) javascript micro-library using generators to invert program flow and generate coroutines. This was the subject of several conference talks and has granted me a deep understanding of the language feature that is unparalleled.

Tech Terms Anki Deck Blog Post Github Podcast

A project for helping students and non-developers to get oriented in the terminology of tech. This is used as part of the curriculum in several courses and study groups.

ob-racket Github

Org Mode Emacs extension to enable notebook programming in the Racket programming language.

Estimation Checklist Github

A massive collaborative checklist of questions one should remeber to ask when doing broad-scale estimation.

`$.persistState` Github

Extensible jQuery widget to automatically persist the state of UI components in localStorage.

ApprovalTests.BetterPdfVerification Github

A set of approvers for the .Net version of the amazing ApprovalTests assertion framework. It makes approving of pdf files actually work as it normalizes out inconsistencies such as timestamps and auto generated ids.