

Mike McGranahan

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👍 domain-driven design documentation empathy diversity courage

Results-oriented software craftsman with 20 YoE (six in leadership/management) in complex domains with demanding non-functional requirements. As a manager, passionate about team trust, empathetic listening, and risk reduction. As a developer, focused on tackling team goals; delivering safe, performant, developer-friendly solutions; and stepping up wherever needed. Advocates strongly for iterative development and domain-driven design as means to sustain success.

EXPERIENCE

2022-10 to 2023-08 · Sabbatical · *rest, reconnection, and research*

F# AI code autocompletion property-based testing MAUI Kafka Borg Btrfs Linux knowledge management

- ▶ Experimented with F#, MAUI, property-based testing, event sourcing, Kafka, GitHub Copilot.
- ▶ Safeguarded home data with dmcrypt, borg, Btrfs, rdiff-backup, rclone, bash, Powershell, backupninja.
- ▶ Read books: *The Manager's Path*, *Software Estimation*, *The Five Dysfunctions of the Team*, *The Advantage* excerpts, *Radical Focus*, *Basics of Nonviolent Communication*, *The Power of Time Blocking*, *Domain Modeling Made Functional*.

2019-11 to 2022-10 · Multiple roles at **ServiceTitan** · *operations software for trades industry businesses*

coaching planning C# TypeScript ASP.NET Core React MobX SQL Server microservices Redis Cordova Kibana

- ▶ **2021-01 to 2022-10** · Engineering Manager
 - ▶ Up-skilled team with book club / training on Domain-Driven Design, Behavior-Driven Development and automated testing; standardized research and documentation process; and QA-dev cross-training program.
 - ▶ Propelled morale with celebratory sprint reviews, blameless postmortems, 10% time, and casual syncs, while rapidly growing from 4 to 10 devs, absorbing domains, and lacking consistent direct manager support.
 - ▶ Bolstered cross-functional squad predictability by installing iterative processes, establishing syncs between devs and others, expanding dev role to include minor QA tasks, and coaching devs on swarming of large work items.
 - ▶ Owned company's most utilized, critical, and complex screen, and prioritized performance enhancements to keep pace with usage growth to 35k daily active users and 2 million requests per day.
 - ▶ Architected, planned, and led scalable next-gen, contextual widget framework to sustain rapid development.
 - ▶ Partnered with recruiting and L&D, and interviewed engineering, QA, and product management candidates.
 - ▶ Collaborated with product owners and devs to create pragmatic architectures and flexible project plans:
 - Leveraged code to expedite "technician crew" bulk workflows, unblocking entry into construction market.
 - Designed flexible data model for rule-based adjustment in workload capacity planner, alleviating VIP user pain.
 - Planned enhancements to geographical work assignment tool with optional phases, hedging against complications in underlying 3rd party mapping library and ensuring priority pain points were addressed.
 - Assigned project leads and coached on soft-skills and planning, creating team redundancy and scalability.
- ▶ **2020-09 to 2021-01** · Staff Engineer
 - ▶ Took over neglected 1:1s, attentively listened, and fastidiously resolved issues, leading to improved sentiment.
 - ▶ Initiated document repository to distribute tribal knowledge, including Kibana and git recipes, on-call incident procedures, and technical documentation and diagrams, in order to increase resiliency.
 - ▶ Partnered with product managers to analyze ideas, establish rough estimates, and plan roadmaps.
 - ▶ Rebooted Scrum implementation to improve team cohesion, focus, productivity, and performance tracking.
 - ▶ Led massive refactoring of core data models to decouple invoicing and scheduling in order to simplify workflows.

2018-03 to 2019-09 · Head of Engineering at **Reasi** · *blockchain-based real estate escrow*

TypeScript Node.js React PostgreSQL CircleCI Docker Jest AWS Koa Solidity web3.js Lerna

- ▶ Built trustless escrow with Dwolla banking/identity APIs, Ethereum smart contracts, PDF generation, DocuSign.
- ▶ Optimized DevEx with containers, code sharing monorepo, githooks-based linting, migrations, ngrok clone.
- ▶ Streamlined DevOps with CircleCI, AWS ECS, tuneable logging, and envelope encryption for at-rest PII data.
- ▶ Devised recruiting process to minimize bias; refined approach to attract quality candidates despite limited cash.
- ▶ Setup lightweight work management processes based on Scrum, buffered MoSCoW planning.
- ▶ Built PostgreSQL distributed lock and job scheduler, JS Proxy-based dirty-checker to support write optimization.

2016-08 to 2018-03 · Senior Instructor at **Sabio Bootcamp** / Adjunct Faculty at **Antioch University L.A.**

C# Node.js React Bootstrap ASP.NET MVC Express SQL Server MongoDB AngularJS public speaking TFS

- ▶ Developed lessons, exercises for accredited courses in C#- and Node.js-based web development.
- ▶ Trained, mentored 60+ junior developers as they entered the workforce, with 90% 6-month job hire rate.

2014-04 to 2016-06 · Web Developer at **Stack Overflow** · *Q&A for developers*

C# SQL Server A/B testing React Redis Elasticsearch Backbone.js jQuery ASP.NET MVC TeamCity GitLab

- ▶ Overhauled critical e-commerce system for UX experimentation, technical debt, testability.
- ▶ Drove A/B experiments to optimize purchase flow completion and employment status freshness.
- ▶ Mentored junior women developers through partnerships with Flatiron School, Girl Develop It NYC.
- ▶ Advocated for greater codebase modularity, automated testing, and CSS standardization.

2012-04 to 2014-02 · Founder / Wearer of All Hats at **Blocvox** · *collaborative social networking service*

C# MongoDB ASP.NET MVC MSBuild Backbone.js RequireJS CasperJS PhantomJS Azure TeamCity Linux

Architected for scale with CQRS, DDD, and safeguarded MongoDB with OpenVPN and LVM.

2010-06 to 2012-04 · Technology Consultant at **Lab49** · *FinTech consultancy*

C# SQL Server Analysis Services Java WPF Node.js WebSockets Selenium Jenkins TeamCity Pivotal

Rapidly developed streaming financial dashboards for global investment banks in distributed teams.

2008-10 to 2010-06 · Software Engineer at **GameFly** · *video game rentals*

C# ASP.NET MVC Lucene.net Ruby Rails SQL Server MSBuild NHibernate SQL Server NUnit

Modernized company tech stack to improve stability, maintainability, and test automation.

2007-01 to 2008-10 · Lead Developer at **Reborn Studio** · *general software consultancy*

C# ASP.NET WebForms SQL Server Subversion

Established coding standards and led development of social, video, and geographic search apps.

2004-08 to 2007-01 · Programmer/Analyst at **UCLA** · *public research university*

C# ASP.NET WebForms SQL Server VB.net VB6 Windows Forms

Developed SOAP services for campus gradebook management, Exchange server calendaring.

EDUCATION

- ▶ **UCLA** · B.A., Political Science · Part of B.S., Computer Science & Engineering program: *Systems Programming, Logic Design of Digital Systems, Computer Systems Architecture, Computer Network Fundamentals, Database Systems, Formal Languages and Automata Theory, Circuit Analysis, Systems and Signals, and Physics for Electrical Engineers.*
- ▶ Certified ScrumMaster