

MISHA BERGAL

FULL-STACK SOFTWARE ENGINEER WHO CARES

INFO

ADDRESS

1317 Dolen Place, Iowa City, 52246

PHONE

319-9368228

EMAIL

misha.bergal@gmail.com

LINKS

stackoverflow.com/mbergal

github.com/mbergal

[No Twitter](#)

[No Facebook](#)

SKILLS

JavaScript (know good and bad parts), TypeScript, Flow

C#, Python 2.7, Java, ReasonML/OCaml, F#, Elm, a bit of Haskell and even C/C++

Flux, Redux, Elm architecture, unidirectional data flow, MVVM.

Tactical DDD (no strategic DDD and CQRS), OOD/OOP, Functional Programming (know what Ma -> (a->Mb) -> Mb is), ORM, Fast (Unit) and slow (integration, acceptance) testing

Web APIs (RESTful and not)

PROFILE

About me:

I am a very experienced software developer who has done front-end and back-end development, DevOps, product design, and generally whatever was necessary to ship great products putting people first.

I value:

- Solving important problems
- Smart, passionate, caring team. Team == Product
- Shared vision, aligned goals, care and empathy towards mission, results and people
- Great UX design
- Simplicity (as in [Simple-Made-Easy](#)), maintainability and absence of fear
- Code as prose

Why I am looking for a job:

My work at the current place is done - it was very intense, but the major technical pieces are built, so it is time to move on to [the next adventure](#) (<https://www.youtube.com/watch?v=JAYoLyO5hCs>).

EMPLOYMENT HISTORY

Principal Software Engineer, IDx Technologies

Coralville, IA

Oct 2018 — Present

C#, React, AWS (EC2, RDS, EKS, and others), k8s, Pulumi + TypeScript, C#, .NET Core, MySQL, Nginx, Prometheus, Grafana

Developed class "C" (Death or Serious Injury is possible as a result of device malfunction) medical device software - the first FDA approved autonomous diagnostic device.

Developed a lot of infrastructure and process support software (there is a lot to class C device beside the actual software).

Designed and implemented Cloud applications to support the integration of the above software with other health information systems.

Designed and implemented AWS Cloud infrastructure for the above software with infrastructure as code via Pulumi.

Worked on company culture, which is basically how to keep people happy and to care, although at no point I was in a management role.

Senior Software Engineer, Pear Deck

Iowa City, IA

Apr 2016 — Aug 2018

GCP (GKE and other services), AWS (EC2, RDS, SQS, EKS and other services), Kubernetes, Helm, Pulumi (TypeScript), Prometheus, Grafana

Bash, PowerShell

Firebase Real Time Database, BigQuery, MongoDB, MySQL, Oracle 11g, Microsoft SQL Server

JavaScript and Flow, Node, Angular, Java, Python, Elm, Reason ML+React, GKE, Firebase, Mongo, k8s, Helm

With my team developed a web tool to help teachers engage students, especially in challenging environments with large class sizes so everybody could be heard and be safe. Consistently pushed out new features while keeping the system up and running and bringing in new developers.

Our team did the full cycle of product development - from UX design to implementation to ongoing support, cool stuff like Flashcard Factory <https://www.youtube.com/watch?v=afmplzqPyQI> (this video is by our user, not us!)

We were able to do that by working in small vertical teams, constantly aligning, and having a shared vision on what product, code, and the process should be. We never left anybody alone with a problem, situation, or task. As one of two most-experienced devs, I put steady efforts into gradually improving product architecture, code quality, system maintainability, and most importantly creating a shared vision on where we are going technically as a development team.

Implemented collection of microservices running on GKE/AppEngine.

Provided product/UX design ideas, suggestions, and feedback.

Tested automatically (Jest, Selenium, unit, integration, acceptance tests) and manually.

Made new developers productive and helped them with doing the right things for the company, team, and themselves. Reviewed PRs, provided help and suggestions.

Wrote deployment procedures, k8s configurations (including automatic load balancing), configured GCP. Monitored application up-time and performance, detected and fixed application and infrastructure problems.

Software Engineer, University of Iowa

Iowa City, IA

2012 — 2016

DDD and .NET

Focused on the most painful problems and problems that no one else was well equipped to work on.

Worked on building a professional software development team, set up organization processes, established shared vision, created and maintained standard operating procedures (SOP), and supervised other developers.

Head of Engineering, MetaCommunications

Iowa City, IA

1995 — 2012

Whatever was necessary. Did a lot of stuff including product design and implementation (C++, C#, SQL, a lot of JavaScript), product implementation on customer sites, marketing, testing (automated and manual), office, and personnel management.

EDUCATION

6 years (B.Sc.), Leningrad Polytechnic Institute

Leningrad, USSR

REFERENCES

References available upon request

