MISHA BERGAL

FULL-STACK SOFTWARE ENGINEER WHO CARES

INFO

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LINKS

stackoverflow.com/mbergal

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SKILLS

JavaScript, TypeScript, Flow

C#, Python 2.7, Java

ReasonML/Ocaml, F#, Elm, a bit of Haskell and even C++

Node, .Net Core, JVM

Angular, React, Flux, Redux, Elm architecture, unidirectional data flow, MVVM

Tactical DDD, OOD/OOP, Functional Programming (know what Ma -> (a -> Mb) -> Mb is), ORM, fast (Unit) and slow (integration,acceptance) testing

Web API (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# .NET Core, React + TypeScript, **AWS (EC2, RDS, EKS, and others)**, **k8s**, **Pulumi + TypeScript**, **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.

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

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

HIPAA compliant AWS Cloud infrastructure for the above software with infrastructure as code via Pulumi.

Senior Software Engineer, Pear Deck   Iowa City, IA
Apr 2016 — Aug 2018

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

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

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

Developed web application 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.

Did full cycle of product development - from UX design to implementation to ongoing support, cool stuff like Flashcard Factory https://www.youtube.com/watch?v=afmp1zqPyQI (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 were going technically as a development team.

Implemented collection of microservices running on GKE + AppEngine.

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

Did all DevOps stuff like 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