Misha Bergal

FULL-STACK SOFTWARE ENGINEER WHO CARES

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:

- Building non-negative impact products with people who know and are working toward getting what they want
- Smart, passionate, caring team. Team == Product
- Shared vision, aligned goals, care, and empathy towards mission, results, and people
- Seeing beautiful in what we do

Why I am looking for a job:

Hopefully, COVID will soon be gone and the application I was working on will be retired, it is time to move on to the next adventure (https://www.youtube.com/watch?v=JAYoLyO5hCs).

Employment History

Principal Software Engineer, ReelHealth, Los Angeles, CA

SEPTEMBER 2020 — PRESENT

ReasonML/Rescript, Node, GraphQL, Hasura, Postgres, AWS, k8s

With a small team developed (mobile and web front-ends, back-ends, infra) and operated (monitoring and operational fixes) set of applications for COVID testing on the sets of show productions for Netflix, Amazon, and other studios.

Principal Software Engineer, IDx Technologies, Coralville, IA

OCTOBER 2018 — JULY 2020

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

APRIL 2016 — AUGUST 2018

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

Details

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Links

stackoverflow.com/mbergal

github.com/mbergal

No Twitter

No Facebook

Skills

JavaScript, TypeScript, Flow, ReasonML/Rescript

C#, Python 2.7, Java

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

Node, .Net Core, JVM

React, 2, 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)

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

Postgres, 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