

# Dima Kurilo

## Senior Software Engineer

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GitHub profile: <https://github.com/DKurilo/>  
StackOverflow profile: <https://stackoverflow.com/users/1578857/dima-kurilo>  
LinkedIn profile: <https://www.linkedin.com/in/dkurilo/>  
HackerRank profile: <https://www.hackerrank.com/dkurilo>

### *I can:*

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JavaScript / TypeScript / node.js	Haskell
fp-ts / io-ts / Ramda / sanctuary	GraphQL / Apollo GraphQL server
Terraform / Kubernetes / Helm / Serverless	MySQL / MongoDB / BigQuery / DynamoDB
CircleCI / GitHub / TravisCI / Jenkins	some experience with Kafka
Docker	number of other programming languages
AWS (EKS, EC2, Lambdas and other) / Google Cloud Platform	prefer functional programming approach

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### *Professional Experience*

**Senior Software Engineer / Backend Engineer** 03/2020 - now  
Patch.com, New York, [<https://patch.com/>]

#### *Responsibilities*

- AuthN/AuthZ platform
- system architecture development
- CI/CD development (CircleCI)
- DevOps: configuring systems with Terraform, Kubernetes (AWS EKS), docker, Helm
- Dev tools development
- Legacy system support

#### *Tech Stack*

- JavaScript / TypeScript / Node.js
- fp-ts / io-ts
- AWS: Lambda, EC2, EKS, etc
- gremlin
- AWS Neptune
- Fastly
- Auth0
- Serverless
- MySQL / MongoDB / BigQuery / DynamoDB
- Terraform / Kubernetes / Helm / docker / packer
- CircleCI / GitHub / Jira / Confluence
- Google Cloud Platform: BigQuery, Functions, Pub/Sub, etc
- Haskell for dev tools

#### *Achievements*

- Build system to manage inner structure of editorial team
- Designed and implemented AuthN/AuthZ scalable platform (different identity providers, attribute-based access control)
- described part of infrastructure in Terraform
- started EKS k8s, built Helm charts for some services and set up CI/CD
- developed and set up Data Warehouse (GCP BigQuery based) load system
- developed DSL to generate content feeds for newsletters from different sources

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### **Senior Web Engineer** 12/2017 to 01/2020

Future PLC / Purch, New York, [<https://www.futureplc.com/>]

#### *Responsibilities*

- migrating the sites of acquired companies into the corporate publishing platform
- developing and maintaining the corporate publishing platform

#### *Achievements*

- implemented a Go package that provides EDSL (embedded domain specific language) for describing composition of HTML transformations. As a result, the package allows to make any complex transformation using just a few lines of code

- created a Haskell-based set of tools that allows to make complex changes in huge amount of large json files through API.
  - implemented a set of GraphQL directives that allows to remove resolvers and describe GraphQL schemas in a declarative way.
  - implemented a complex cross-platform feature that allows the company to use a better SEO strategy. During the implementation updated components written in Go, JavaScript, TypeScript, PHP
  - maintaining and developing existing and participating in development of new high-load projects, such as [www.space.com](http://www.space.com) and [www.tomsguide.com](http://www.tomsguide.com)
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**Lead Web Developer** 05/2014 to 10/2017

Creative Soldier, Brooklyn, [<http://creativesoldier.com/>]

*Responsibilities*

- full-stack development: creating, deploying and maintaining web sites and applications starting from layouts, implementing responsive design principles in various browsers and on desktop and mobile devices
- providing technical solutions and resource estimates to the management based on clients' requirements

*Achievements*

Developed and launched 30+ projects, including

- The Duchess [<https://duchessapartments.com/>] (AngularJS + MODX)
  - Austin Nichols House [<http://austinnicholshouse.com/>] (MODX, AngularJS for mobile version)
  - Presidential City [<http://presidentialcity.com/>] (AngularJS for mobile version)
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***Education***

**Moscow Engineering Physics Institute (MEPhI), Moscow, Russia**

Engineer-physicist (MS equivalent degree), Electronics and Automation