# Laurynas Karvelis

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## PROFILE

A dedicated **SOLUTIONS ARCHITECT and SENIOR NODE.JS JAVASCRIPT DEVELOPER** delivering beautiful, seamless and exciting scalable web platforms, applications with passion for over 14 years. Attention to detail and uncompromised quality of work with every-day skills such as functional and object oriented Javascript, Node.js, AWS Lambda, CI/CD and other cutting edge tech is what every client deserves and receives. Building fast, intuitive, maintainable and scalable backend services that are unit and functionally tested. Projects delivered using Kanban, Agile and Scrum methodologies. Now seeking for a rewarding contract opportunity as a SENIOR BACKEND DEVELOPER and/or SOLUTIONS ARCHITECT to achieve **client oriented results**.


## RELEVANT EXPERTISE

- **Node.js** (9 years), typescript, serverless, typeorm, express.js, mongoose, Sequelize, jest, ava, mocha, chai, Node stream processing, Node IPC;
- **Javascript** (12 years), functional and OOP design patterns, Node.js, Esbuild, webpack, gulp, grunt and bower, Native JS;
- **PostgreSQL** (4 years), **MongoDb** (4 years), MySQL (8 years), DynamoDB (1.5 years);
- HTML5 (8 years of (x)HTML), Pug, Jade, Mustache, Handlebars, EJS; Web Canvas, W3C);
- CSS3 (8 years of CSS), Sass, Less; Bootstrap, Foundation, Semantic UI;
- **Git**, Jira, Confluence, Crucible, FogBugz, SVN;
- **Code testing** – Jest, AVA, Mocha + Chai, Codecov, Karma, Jasmine, Protractor;
- **SQS**, SNS, **Kinesis**, ALB, Api gateway, **Lambda**, Redis, DynamoDB, Nginx, Apache, continuous integration, continuous delivery;
- **Kanban, Agile**, **Scrum** methodologies, code reviews, **pair** programming;
- Meeting tight deadlines, capable of working under pressure.


## ACHIEVEMENTS

- Optimised and re-engineered AWS customer's serverless platform critical core business parts to be capable of **processing 40x more data** while simultaneously **reducing its processing time 16x** by optimising each part of the pipeline starting from a HTTP request to the RDS optimisations, all this while also **reducing monthly costs**.
- Innovative business application development by developing front-facing, **uncompromised quality** tools that are being used by some of **Fortune 500** companies.

- **Worked on two** of the first pioneering **Facebook** real money online gambling **applications** frontends using latest Facebook API features that were not even open to the public.
- Successfully **re-designed** and **re-developed the startpage** platform for providers like Microsoft's Bing, Yahoo and Ask. The platform serves more than **10 million visitors each month**. Created the entire Javascript Application development framework and built proprietary web applications for Facebook, Twitter, Gmail and 10 others on top of it. **Increased user's lifetime value** for the company and its partners.
- **Re-designed UI** for existing SEO web application. Created **top-notch Node.js** chart processing server for reporting system. Created internal **decision making system** to calculate website's SEO ratings from more than **100 different criterias** by aggregating 200 GB MySQL data for faster data processing and re-presentation. Therefore increased customers' satisfaction rate significantly.
- **Created** and maintained **bespoke CMS solution** and launched **over 20 websites**, web portals for various Lithuanian clients. The CMS helped dozens of new and existing businesses to increase their sales and brand recognition.
- Created **CRM, billing and server management system** for Lithuanian **web hosting company**. This solution made the company one of the first fully automated web hosting companies in Lithuania with reduced staff costs.

## EMPLOYMENT

**Solutions Architect, Senior Backend developer @ Pushologies (pushologies.com)**
**Sep 2022 - Sep 2023, Nov 2021 - Jan 2022, Mar 2020 -  Aug 2021**

- Created Backend serverless microservice based processing (well documented) RESTful endpoints, queues to withstand millions of mobile notification pushes at a time, video/image processing based on S3 events and much more;
- Unit and integration tested Serverless apps with Cognito and other auth mechanisms;
- Developed a robust git-flow based CI/CD workflow based on Bitbucket Pipelines;
- Optimised and re-engineered AWS customer's serverless platform critical core business parts to be capable of **processing 40x more data** while simultaneously **reducing its processing time 16x** by optimising each part of the pipeline starting from a HTTP request to the RDS optimisations, all this while also **reducing monthly costs**;
- Tech used daily: Serverless, Typescript, Postgres, DynamoDB, SQS, SNS, Kinesis, S3, ALB, Api Gateway, ECR, CloudFront, Cognito, Jest and more.

**Senior Backend developer @ NearSt (near.st)**
**Mar 2019 -  Aug 2019**

- Automated shop onboarding process using AWS Lambdas and Google APIs giving staff their time back (cutting it down 8 fold) to focus on things that matter;
- Reduced shop Data flow processing times significantly so the company can further save more on AWS expenses;

- Refactored majority of Lambda services to improve their code readability, maintenance, functional testability using best nodejs dev practices and simplifying the code overall;
- Tech used daily: AWS cli, DynamoDB, Kinesis streams, serverless, Node Lambdas, AVA.

**Senior Backend developer @ 90 Percent of Everything (90poe.io)**
**Apr 2018 - Sep 2018**

- Developed and maintained IoT vessel microservice based solution (realtime device stream processing) running under Docker with remote update system; Worked on other AWS cloud microservices, both internal and client facing;
- **ES6 Node.js** cloud and IoT microservices (mainly: nodejs + apollo, graphQL, gRpc, rest, ws, http2);
- DBs used: postgresql, mongodb, Influxdb; Process IPC and queueing: RabbitMQ, Kafka.

**Crypto trading background system @ Personal project**
**Sep 2017 - Apr 2018**

- **ES6 Node.js** background realtime-data application with NoSQL;
- Realtime sockets, node-ipc inter-process comms, async/await, Bluebird, scheduled tasks, Telegram integration;
- Process crash recovery for trades and other sensitive tasks;
- Numerous code contributions to node module software @ Github.

**Senior Node.js developer @ Dixons Carphone Warehouse (www.dixonscarphone.com)**
**Apr 2016 - Sep 2016**

- **ES6 Node.js** RESTful service development with NoSQL datastores;
- Heavy use of Promise based async task chaining;
- Unit, integration testing, **95% average code coverage**, CI & CD.

**Senior Frontend developer @ Essence digital (www.essencedigital.com)**
**Nov 2015 - Mid Feb 2016**

- Internal advertising management platform as a single page web application;
- Frontend web application with Angular.js and Angular Material;
- Continuous integration, and code testing with Karma + Jasmine, Docker.

**Co-founder, chief product officer @ Geektastic.com (www.geektastic.com)**
**Sep 2014 - Oct 2015**

- Developer technical assessment and hiring platform using Angular.js, Sails.js, MongoDB;

- UX and UI development using Twitter Bootstrap, Semantic UI;

- Entire website was developed solely by one developer.


**Senior Frontend developer @ The Press Association (www.pressassociation.com)**
**May 2014 - Aug 2014**

- E-commerce website using Angular.js and Sails.js (node.js);

- Unit testing with Karma, Functional testing with Protractor + Selenium.


**Senior Frontend developer @ Signal Noise (signal-noise.co.uk)**
**Apr 2014 - May 2014**

- Backbone MVP project for EE big data analysis and presentation;

- HTML canvas for mobile device performance, animations, Easel.js


**Senior Frontend developer @ Gamesys (www.gamesyscorporate.com)**
**Jun 2013 – Jan 2014**

- Virgin Poker Facebook app development using Backbone.js;
- TDD via Jasmine + Grunt; Maven; Hudson.


**Senior Frontend developer @ Bonza Gaming (www.bonzagaming.com)**
**Oct 2012 – Feb 2013, Mar 2013 – Jul 2013 (extension)**

- Greenfield responsive Facebook app development from the architecture till it's release using Backbone.js on frontend;
- Node.js + Express.js for mockup backend testing;
- TDD and functional testing using Jasmine and Mocha + Chai spinning Selenium via SauceLabs.


**Senior Frontend developer @ DeLaRue plc. (www.delarue.com)**
**Mar 2012 – Sep 2012**

- Greenfield Javascript OOP with frontend models, Zend Framework project using SOAP web services as data-source using service/mapper/entity layers. It is a NDA project, but these were my technical responsibilities:
    - Modular jQuery frontend utilising best object oriented programming practices with backbone.js to control models, views etc.;
    - Numerous jQuery plugins created, browser specific memory leak fixes for various external jQuery libraries; Javascript code performance improvements
    - Utilisation of Twitter Bootstrap CSS and Javascript library, combining that with backend Zend Framework dynamic form generations;
    - Superb use of latest, high-end Javascript technologies while in rapid Agile application development.

**Head of Search (Backend and Frontend developer) @ Zugo Services Ltd. (www.zugo.com)**
**Feb 2011 – Feb 2012**

- Responsible for creating a specific PHP backend platform delivery framework for increased speed (handles 10 millions of visitors each month in cluster). Delivered custom

browser-based Javascript application development framework with Facebook, Twitter, Gmail and other 10 additional applications purely written on top of this JS framework and jQuery;
- R&D of new startpage platform, HTML5 canvas animations experiments, physics engine in Javascript implementation for visuals;
- Took care for this project from specification till launch, helped other developers by teaching them.

**PHP backend/frontend programmer @ Analytics SEO (www.analyticsseo.com)**
**Aug 2010 – Feb 2011**
- Created dedicated Node.js server which utilises Highcharts Javascript library in browser-less imitated DOM environment that is capable to export statistical charts automatically into PNG or any other type graph images;
- Responsible to develop a new backend decision making system for company online service by aggregating 200GB in size MySQL database, optimising SQL queries and database itself;
- Re-developed the whole frontend UI for the customers by representing aggregated data in a nice and clean way.

**Senior front end programmer @ Laisvalaikio Dovanos, UAB (www.laisvalaikiodovanos.lt)**
**Apr 2009 – Nov 2009**
- Stabilised internal CRM system and frontend online shop by adding new features, fixing bugs left by another company which first created this bespoke system. Took care of UI tests using Google AB testing, therefore managed to increase conversion rates for online store;
- Redeveloped frontend UI for the clients by representing aggregated data in nice and clean way;
- Support of this bespoke system in 4 countries sharing a similar code base, managing and prioritising each country feature/bug requests.

**Senior frontend developer and Project manager @ Made.By, UAB (www.by.lt)**
**Mar 2007 – Mar 2009**
- Providing best online marketing solutions for the company. Gathering project requirements, delivery of finished project, close work with freelance designers, company web developers;
- Responsible for bespoke CMS development and maintenance, delivered and launched over 20 projects with this CMS by adapting it to each project using Agile methodology.

**PHP developer @ E-vaizdas.net, UAB (www.e-vaizdas.net)**
**May 2003 – Jun 2006**
- Responsible for creating a completely new bespoke CRM, billing and automated web hosting server management system. Features like server farm remote "one-click" control, automated customer accounts' management, automated hosting account controls;
- Company website development and maintenance, new billing methods' implementations were my duties.

**PERSONAL SKILLS AND COMPETENCES**

**Languages:**
- English (fluent)
- German (spoken)
- Russian (spoken)

- Lithuanian (mother tongue)
- Portuguese (spoken)


## EDUCATION

**Master's degree @ International Business School at Vilnius University**
**Feb 2009 – Feb 2011**

Title of qualification: International Marketing and Business
International classification: Master's degree

**Bachelor's degree @ Kaunas University of Technology**
**Sep 2004 – Jul 2008**

Title of qualification awarded: Informatics
Title of specialisation: Information System Design
International classification: Bachelor's degree