



Mateusz Grotek

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Company: IdeaPiece Ltd is a company registered in England and Wales under company number 10681999

Registered office: 20 Chinnock Brook, Didcot, Oxfordshire, United Kingdom, OX11 7XU

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Experience

Jul. 2019–Oct. 2020

KG Protech (kgprotech.com)—*Ruby on Rails Contractor*

- development of automotive training web application
- mobile development
- communication with hardware through API
- setting up servers, GitLab/Heroku CI & test/deployment pipelines, DevOps, automatic documentation/diagrams generation
- requirements gathering, executable user stories/specifications creation
- backend—Ruby on Rails
- frontend—pure, modern JavaScript/ECMAScript (+ Android app in Java), WebSockets
- automated testing—RSpec, Cucumber
- other: PostgreSQL, HTML 5, modern CSS (Sass), Sidekiq, git, GitLab, BrowserStack, agile (Kanban)

May 2019–Aug. 2019

mGage (mgage.com)—*Ruby on Rails Contractor*

- anti-fraud solution for mobile payments
- backend—Ruby on Rails
- frontend—modern JavaScript & CoffeeScript, jQuery
- automated testing—RSpec
- other: PostgreSQL, CMS (Active Admin), HTML (Curly), CSS (Sass), Sidekiq, REST, git, GitHub, JIRA, agile (SCRUM)

Oct. 2017–May 2018

CDP Worldwide (cdp.net)—*Ruby on Rails Contractor*

- design and development of a standalone Rails/Sidekiq backend application for background processing of the data
- features of an application for online collection of data from companies, governments etc.
- major speed improvement in testing pipelines
- backend—Ruby on Rails
- frontend—JavaScript/CoffeeScript, jQuery
- automated testing—RSpec
- other: MS SQL Server, CMS (Comfortable Mexican Sofa), HTML (HAML), CSS (Sass, Compass), Delayed Job, Sidekiq, REST, git, GitHub, JIRA, agile (SCRUM)

Mar. 2017–now

IdeaPiece Ltd (ideapiece.com)—*Director and Software Developer*

Oct. 2015–Jul. 2016

Fitzdares (fitzdares.com)—*Ruby on Rails Developer*

- betting platform
- supporting a junior developer, pair programming
- improved git workflow, integration with Pivotal and Jenkins
- backend—Ruby on Rails
- frontend—design and implementation of a customised microframework in JavaScript/CoffeeScript/Backbone.js
- automated testing—Cucumber & RSpec
- DevOps—Jenkins, pipelines, Puppet, cron, SSL certificates, database dumps, user and password management, shell (zsh) programming
- Amazon Web Services—EC2, Route 53, S3, RDS
- other: MySQL, HTML (HAML), CSS (Sass), JavaScript, Underscore.js, WebSockets (Pusher, Slanger), Delayed Job, Sidekiq, REST, git, GitHub, Puppet, Hiera, zsh, Linux, Pivotal, agile (SCRUM)

Aug. 2014–Oct. 2014

goodylabs (goodylabs.com)—*Ruby on Rails Developer*

- programming and automated testing of an online platform for magazine and newspaper retail
- integration with databases
- programming frontend widgets to integrate with external client sites
- technologies: Ruby on Rails, JavaScript, Node.js, Dojo Toolkit, RSpec, MySQL, MS SQL Server, CSS, git, GitHub, REST

Apr. 2012–Feb. 2013

tekten (now uniteam, uniteam.pl)—*Junior Java Developer*

- creating an HRMS for a major Polish telco (Netia)
- database programming
- technologies: Java EE, Seam, RichFaces, JSF, JSP, JBoss, Tomcat, Liferay, JavaScript, AlloyUI, SVN, BPMN, Oracle, PL/SQL, Linux, SSO

Jul. 2011–Oct. 2011

Ragnarson (ragnarson.com)—*Ruby Developer*

- technologies: Ruby on Rails, JavaScript, jQuery, HAML, SASS, XHTML, CSS, git, GitHub, REST, Cucumber, Capybara, agile (SCRUM)

Jun. 2011–Jun. 2011

Ragnarson—*Internship*

Education

2013–2015

Politechnika Łódzka/Lodz University of Technology (p.lodz.pl/en)—*Master's Degree*

Computer Science, Artificial Intelligence and Software Engineering, 4.67/5, master's thesis: 'Framework for Constructing Proof Assistants for Diagrammatic Reasoning', technologies: Smalltalk

2011–2012

Syddansk Universitet/University of Southern Denmark (sdu.dk/en/)—*Erasmus*

Computer Software Engineering

2008–2012

Politechnika Łódzka/Lodz University of Technology—*Engineer's Degree (Bachelor equiv.)*

Computer Science, Software Engineering and Data Analysis, 4.71/5, engineer's thesis: 'Between Syntax and Semantics—the application of visual reasoning to a proof assistant', technologies: Smalltalk, leader of the cognitive science division of K. I. N. O. (<http://kino.ics.p.lodz.pl>)

2005–2008

Uniwersytet Warszawski/University of Warsaw (en.uw.edu.pl)—*Studies*

Interfaculty Studies in Mathematics and Science

Summary

IdeaPiece specialises in web application development using modern, untyped, dynamic, reflective, object-oriented programming languages (including Ruby, JavaScript), but I also use other programming languages (e.g. Java), depending on the client's needs. Other services include agile project management; software and systems design; web design; automated testing; Linux DevOps, administration, networking, and shell programming; PostgreSQL database management; and others.

As an individual, I have five years of experience in development of backends and frontends for systems used in automotive industry, mobile payments, retail, human resources management, bookmaking and NGO data collection. I worked with big companies (Netia) as well as start-ups. I also hold a master's degree in computer science.

Skills

- programming languages & frameworks:
 - professional level (work experience): Ruby, Ruby on Rails, JavaScript/EcmaScript, CoffeeScript, jQuery, Node.js, Backbone.js, Dojo, AlloyUI, Java, Java EE, JSF, Liferay, zsh, bash;
 - other: React, Redux (both used to create the company's website), Smalltalk, Prolog, Common Lisp, R, Octave (a MATLAB clone), AWK, C, C++, assembler, ActionScript, TCL, Objective-C, Ada, Perl, COBOL, Fortran, SNOBOL4;
- operating systems & DevOps:
 - professional level (work experience): Linux, AWS, Heroku, GitLab, Jenkins, Puppet;
 - other: Unix, OpenVMS, IBM i (AS/400), IBM z/OS;
- CCNA training modules 1 and 2;
- databases (work experience): PostgreSQL, MySQL, Oracle (including PL/SQL), MS SQL Server;
- layout, text composition, page description languages: HTML 5, HAML, Pug, T_EX, PostScript, CSS 3, Sass, Less, PostCSS, XML, XSL-FO, XSLT;
- project and version management: git, GitHub, GitLab, JIRA, Pivotal, Yodiz, SVN;
- business modelling: UML and BPMN;
- agile software development: SCRUM, TDD, BDD, RSpec, Cucumber, Selenium;
- cognitive science, artificial intelligence, natural language processing, digital signal processing, image processing, neural networks, machine learning;
- national finalist of both Polish Mathematical Olympiad and Polish Physics Olympiad;
- languages: Polish—native speaker, English—professional working proficiency, German—basic, Danish—elementary, Chinese—elementary.