

**SUMMARY OF QUALIFICATION:**

I'm a Full-Stack Ruby developer with a strong interest in ethical hacking, penetration testing and vulnerability analysis. I have 15 years of IT experience and 8 years experience dedicated to web-development and security auditing of web applications.

Over the 9 years I occupied different positions in different departments in a big Shared and Cloud Hosting company: 5 of them were in the Tech Support department and 4 in IT as a Ruby/Rails developer. There I've gained experience dealing with someone else's code, debugging it, as well as with catching security flaws and bugs. For the last 5 years I've been working as a full-stack ruby developer, both remotely and on-side. My previous experience also includes:

- Work in the core team of NoNameCon 2021 - the practical cybersecurity conference.
- Supervising the whole web projects' life cycles, starting from initial proposal and requirements gathering finishing execution and release planning.
- Security researching and penetration testing, preparing reports and fixing security issues.
- Preparing tasks and participating in various CTF security games as a game master.
- Work with legacy code, debugging, refactoring and optimizing web-applications.
- Work as a Team Lead within 4 projects at a time leading both local and remote team members. Mentoring and supervising junior and middle ruby/js developers. Collaborating with remote team members from Romania, India and the USA.
- Mentoring tech support agents and supervisors for a cloud hosting company.

**PERSONAL INFORMATION:**

LinkedIn: <https://linkedin.com/in/rrott> GitHub: <https://github.com/rrott> Portfolio: <https://rrott.com>

**Languages:** English – upper-intermediate level. Ukrainian – native.

**SKILLS:**

These are only a few technologies that I use daily while there are many interesting libraries in the Ruby and JS worlds that I used in various projects or for self-education:

**Ruby, JavaScript/TypeScript/CoffeeScript** - as the main languages I use.

**Ruby on Rails, React/Redux, Svelte, Electron, AWS, etc.**

**Experience in scripting languages including Python and Bash**

**Experience with security toolkits such as Metasploit, and Burp Suite Pro.**

**EDUCATION****Zaporizhzhya National University of Ukraine**

Specialty: Economic Cybernetics;

Degree: Mathematician, Economist. Bachelor Degree '07

**VOLUNTEERISM**

- I am a member of **NoNameCon 2021** core team - the Ukrainian community-built practical cybersecurity conference.
- My interest in ethical hacking has resulted in dozens of found and reported security issues in such services as rubygems.org, ZeroMail, tagged.com, ixWebhosting, cater2.me, etc.
- I took part in a CTF as a Game Master and designed several vulnerable applications for **UISGCon** #10, #11, #12 (2014-2016) and "**NoNameCon 2018**" cybersecurity conferences.
- Prepared a CTF game for «**HackIT-2015**» - the Cybersecurity Olympiad and International forum «**Cybersecurity: Ukraine and the world**»
- Created websites and time tracking app for the "**OWASP Ukraine 2019**" and "**NoNameCon 2019**" conferences.
- I am working on my own open source pet-project on Electron(using React and TypeScript).
- Held "Ruby for pentesters" presentation on the very first [OWASP Kyiv](#) Chapter meetup and on the [11th Ruby Meditation](#) meetup.
- Had a "Ruby Security Tips" talk on the [OWASP Kyiv](#) Chapter meetup.
- Partnered with 4 friends of mine to plan and execute several Front-End Meetups and the very first [Hackathon in Zaporizhzhya](#) city.
- Contributed to open-source projects, e.g.: [react-toolbox](#) [gitlab-ce](#) [phony](#) [site\\_prism.vcr](#)

**SUMMARY OF EXPERIENCE:**

Detailed portfolio can be found at: <https://rrott.com>

<b>Company:</b>	<b>Berezha Security Group</b> (part-time, remote) <b>Nov 2019 – Present</b>
<b>Project:</b>	<b>Dynamic Application Red Team Simulation</b>
<b>Project Description:</b>	Berezha is an Application Security and Penetration Testing Company. I am implementing and maintaining their platform that simplifies penetration tests, automates report generation, and integrates external data sources.
<b>Customer:</b>	Ukrainian company <a href="https://bsg.tech/">https://bsg.tech/</a>
<b>Project Role:</b>	Full-stack developer
<b>Responsibilities:</b>	<ul style="list-style-type: none"><li>▪ Implemented the whole architecture, starting from the application design in the AWS cloud stack, configuring CI/CD, creating API services and UI applications, finishing implementing own web-design and writing the documentations.</li><li>▪ Applied fixes and security updates after the internal pentests.</li><li>▪ Participated in the Threat Modeling sessions with Threat Dragon and Elevation of Privilege.</li></ul>
<b>Project Team Size:</b>	1 developer only
<b>Tools &amp; Technologies:</b>	Ruby on Rails, React/Redux. AWS S3, Beanstalk, IAM, Cognito, etc.

<b>Company:</b>	<b>Cater2.me</b>	<b>Oct 2017 – Feb 2021</b>
<b>Project:</b>	<b>Various Internal projects Remote - Kyiv, Ukraine</b>	
<b>Project Description:</b>	Cater2.me provides customizable catering solutions for offices. They allow companies to order food from local vendors, letting their employees customize and set the meal schedule. Team admins can segment the team into different groups and track order details.	
<b>Customer:</b>	US company <a href="https://cater2.me/">https://cater2.me/</a>	
<b>Project Role:</b>	Full-stack developer	
<b>Responsibilities:</b>	<ul style="list-style-type: none"> <li>Maintained the website, several internal applications, applications for clients, vendors and operators, maintained admin console.</li> <li>Prepared and held internal penetration test(both, black-box and white-box). Communicated with the QAs to explain to them the bugs and provide the essentials of how to use Burp Suite within current QA testing workflow.</li> </ul>	
<b>Project Team Size:</b>	~ 5 dev team members	
<b>Tools &amp; Technologies:</b>	Ruby on Rails, Svelte, CoffeeScript, TypeScript, React/Redux	
<b>Company:</b>	<b>Sphere Software</b>	<b>Mar 2016 – Oct 2017</b>
<b>Project:</b>	<b>Groupon Remote - Kyiv, Ukraine</b>	
<b>Project Description:</b>	Groupon is a US e-commerce marketplace. I was working on their notification engine that handled reservation related notifications for Online Booking. It consists of a web server and a set of background workers. The web server exposes endpoints to configure notification profiles and settings as well as callbacks received from the SMS/Calls service.	
<b>Customer:</b>	US company <a href="https://groupon.com/">https://groupon.com/</a>	
<b>Project Role:</b>	Back-end developer	
<b>Responsibilities:</b>	<ul style="list-style-type: none"> <li>I was implementing back-end entities and business logic.</li> <li>API design.</li> </ul>	
<b>Project Team Size:</b>	Worked as a part of a big distributed team.	
<b>Tools &amp; Technologies:</b>	Ruby on Rails 4, Redis, Groupon's specific services/APIs.	
<b>Project:</b>	<b>Dabble Remote - Kyiv, Ukraine; Chicago IL</b>	
<b>Project Description:</b>	Dabble is an online community marketplace for people to discover, teach and host unique and affordable one-time classes. I was working mostly on UI parts of the app using JS and CoffeeScript.	

<p><b>Customer:</b></p> <p><b>Project Role:</b></p> <p><b>Responsibilities:</b></p> <p><b>Project Team Size:</b></p> <p><b>Tools &amp; Technologies:</b></p>	<p>Worked on migrating from old SSO to a new one, refactored and removed legacy code, was working on optimizing and performance enhancement.</p> <p>US company <a href="https://dabble.co/">https://dabble.co/</a></p> <p>Front-end, Back-end developer</p> <ul style="list-style-type: none"> <li>▪ Updating UI, applying new design.</li> <li>▪ Implementing back-end entities and business logic.</li> <li>▪ Refactoring legacy code</li> </ul> <p>~ 5 team members</p> <p>Ruby on Rails 4.2, Trailblazer, Cells, Roar, ActiveAdmin, CoffeeScript, jQuery</p>
<p><b>Project:</b></p> <p><b>Project Description:</b></p> <p><b>Customer:</b></p> <p><b>Project Role:</b></p> <p><b>Responsibilities:</b></p> <p><b>Project Team Size:</b></p> <p><b>Tools &amp; Technologies:</b></p>	<p><b>Syft</b></p> <p><b>Remote - Kyiv, Ukraine; London UK</b></p> <p>Syft is a temporary staffing solution for the hospitality sector in London. Using the Syft mobile app and website, businesses can find temp staff quickly and easily basing on geolocation and required skills set. Joined the team to help them with rewriting and redesigning their API. I was working on implementing a new admin panel for that API.</p> <p>UK company <a href="https://syftapp.com">https://syftapp.com</a></p> <p>Front-end, Back-end developer</p> <ul style="list-style-type: none"> <li>▪ API design: specs, documentation.</li> <li>▪ Implementing back-end entities and business logic.</li> <li>▪ Writing the UI part of the app using react+redux.</li> </ul> <p>~ 30 team members</p> <p>Ruby on Rails 5, Grape, Virtus, ES6, React+Redux, postgresSQL, Rspec, VCR, Factory Girl</p>
<p><b>Project:</b></p> <p><b>Project Description:</b></p> <p><b>Customer:</b></p> <p><b>Project Role:</b></p> <p><b>Responsibilities:</b></p> <p><b>Project Team Size:</b></p> <p><b>Tools &amp; Technologies:</b></p>	<p><b>Chairlift Expense</b></p> <p><b>Kyiv, Ukraine</b></p> <p>Chairlift Expenses is an internal Sphere's project for handling company's expenses. It runs Ruby on Rails 5 API-only application on back-end(JSON API + JWT) and React+Redux Single Page Application on front-end. I was working on it starting from the initial proposing, planning and designing architecture and finishing implementing both front and back-ends of the project.</p> <p>US company. Internal project</p> <p>Team Lead</p> <ul style="list-style-type: none"> <li>▪ Code reviews, estimating and allocating resources, writing stories. Decision-making and negotiating, communicating with the project owner.</li> <li>▪ Writing code, making architectural decisions.</li> </ul> <p>3 team members</p> <p>Ruby on Rails 5, ES6, React+Redux, Gulp, CSS, JSON, postgresSQL, Rspec, Capybara, Factory Girl</p>

<b>Project:</b>	<b>Enova Chicago IL</b>	
<b>Project Description:</b>	Large enterprise project in financial sphere intended to optimize business processes of the loan company. The Project consists of two main parts: Core application based on Ruby on Rails 2.1, Ember and brand-new service wrote from scratch using Rails 4.2. The Project is based on third-party SOAP API and a bunch of internal services and APIs.	
<b>Customer:</b>	US company <a href="https://www.enova.com/">https://www.enova.com/</a>	
<b>Project Role:</b>	Team Lead	
<b>Responsibilities:</b>	<ul style="list-style-type: none"> <li>▪ Code reviews, estimating and allocating resources.</li> <li>▪ Decision-making and negotiating.</li> <li>▪ Writing new and refactoring legacy code.</li> </ul>	
<b>Project Team Size:</b>	3 team members	
<b>Tools &amp; Technologies:</b>	Ruby, RoR, JS, Ember, CSS, Bootstrap, SOAP, JSON, postgresSQL/jsonb, Cucumber, Rspec, Capybara, VCR, JWT, Devise	
<b>Project:</b>	<b>Chairlift(Better Feedback) Kyiv Ukraine</b>	
<b>Project Description:</b>	Chairlift is a modern, cloud-based HR solution that elevates employee performance and provides HR professionals with the insight to nourish workplace culture. It is an internal Sphere project I worked as a part of a remote team.	
<b>Customer:</b>	US company. Internal project. <a href="https://chairlift.io">https://chairlift.io</a>	
<b>Project Role:</b>	Front-end, Back-end developer	
<b>Responsibilities:</b>	<ul style="list-style-type: none"> <li>▪ Implemented several UI parts/features of the application using React, Redux and ES6.</li> <li>▪ Worked on back-end entities.</li> </ul>	
<b>Project Team Size:</b>	10 team members	
<b>Tools &amp; Technologies:</b>	Ruby on Rails 4.2, ES6, React+Redux, CSS, JSON, postgresSQL, Rspec, Factory Girl	
<b>Company:</b>	<b>Ira Rott Inc(part-time, remote)</b>	<b>Jan 2015 – Present</b>
<b>Project:</b>	<b>irarott.com, Ontario, Canada</b>	
<b>Project Description:</b>	Online shopping cart for selling digital material (PDF files with patterns) and is a kind of CMS that has almost everything customizable using an admin page, beginning with adding new patterns, portfolios, creating standalone pages, categories etc and ending with changing all SEO-related parameters of this website.	
<b>Customer:</b>	Canadian company <a href="https://irarott.com">https://irarott.com</a>	
<b>Project Role:</b>	Full-Stack Developer	
<b>Responsibilities:</b>	<ul style="list-style-type: none"> <li>▪ creating back-end and frontend, admin page</li> <li>▪ design, SEO-optimization</li> </ul>	

	<ul style="list-style-type: none"> <li>▪ configuring and optimization of the web, SQL servers</li> <li>▪ site migration, support current features and monitoring website's state.</li> </ul>
<b>Tools &amp; Technologies:</b>	Ruby 2.7, JavaScript, CoffeeScript, Padrino, JQuery, JS, SASS, Haml, ActiveRecord, Carrierwave, Poltergeist, Selenium, JSON, Newrelic, Sprockets, Nginx, PostgreSQL, Capistrano
<b>Company:</b>	<b>Ecommerce LLC</b> <b>Sep 2012 – Oct 2015</b> <b>Columbus OH, Zaporizhzhia Ukraine</b>
<b>Project:</b>	<b>CloudByIX,</b>
<b>Project Description:</b>	Cloud by IX is a Cloud Hosting service created for system and database administrators, web developers, resellers, hosting professionals and business infrastructure. The project is a Single Page JavaScript Application that integrates CloudStacks into the current manage panel and billing system of Ecommerce.com's brands. Application has Ruby on Rails + Sinatra on back-end and backbone.js on front-end
<b>Customer:</b>	US Company <a href="https://www.cloudbyix.com/">https://www.cloudbyix.com/</a>
<b>Project Role:</b>	Team Lead, Middle Ruby/JS developer
<b>Responsibilities:</b>	<ul style="list-style-type: none"> <li>▪ Creating a UI that integrates current control panel with CloudStack.</li> <li>▪ Design of UI components.</li> <li>▪ Adapting SOAP API to JSON and vice versa.</li> <li>▪ Supporting released features, updating functionality as it was required by MVP and Agile methodologies.</li> <li>▪ Security researcher.</li> </ul>
<b>Project Team Size:</b>	4 local developers, 1 remote developer, 3 QAs
<b>Tools &amp; Technologies:</b>	Ruby 1.9.7 and 2.1.3, CoffeeScript, Ruby on Rails 4.0, Sinatra, Backbone.js 1.1, Marionette.js, jQuery, Rspec 3.2, Capybara, Jasmine, VCR, site_prism.vcr, Capistrano, SASS, ROM, Guard, Node, Faye
<b>Project:</b>	<b>Ordering Wizard</b>
<b>Project Description:</b>	Ordering wizard for Cloud product on CloudByIx.com and IxWebhosting.com. This project is an integrated Single Page Application that allows to pre-configure and buy cloud products without using external payment services.
<b>Customer:</b>	US Company <a href="http://www.ixwebhosting.com/">http://www.ixwebhosting.com/</a>
<b>Project Role:</b>	Full-Stack Developer.
<b>Responsibilities:</b>	<ul style="list-style-type: none"> <li>▪ Creating a UI that integrates SOAP API with control panel and CloudStack that uses JSON.</li> <li>▪ Supporting released features, updating functionality as it was required by MVP and Agile methodologies.</li> </ul>

<b>Project Team Size:</b>	3 developers and 2 QAs
<b>Tools &amp; Technologies:</b>	Ruby 2.1.3, CoffeeScript, Sinatra, Backbone.js, jQuery, Ruby on Rails 4.0, Rspec 3.2, Capybara, Jasmine, VCR, site_prism.vcr, Capistrano, SASS, ROM
<b>Project:</b>	<b>IxWebhosting.com + HostExcellence.com</b>
<b>Project Description:</b>	Landing pages for IxWebhosting.com and HostExcellence.com, This project contains pop-ups and a bunch of landing pages for current and pre-sales products that give the company an opportunity to sell a product using one-click purchase tool or Opt-In for a new project that is not yet released.
<b>Customer:</b>	US Company <a href="http://www.ixwebhosting.com/">http://www.ixwebhosting.com/</a>
<b>Project Role:</b>	Front-end Developer
<b>Responsibilities:</b>	<ul style="list-style-type: none"> <li>Integrating design with current API and billing system.</li> <li>Writing code needed for One-Click purchase tool.</li> </ul>
<b>Project Team Size:</b>	2 developers, 1 designer, 1 QA
<b>Tools &amp; Technologies:</b>	Ruby 2.1.3, CoffeeScript, Ruby on Rails 4.0, jQuery, Rspec 3.2, Capybara, Jasmine, SASS, Faye, JSON
<b>Company:</b>	<b>Volunteerism or Open-Source Projects</b>
<b>Project:</b>	<b>CTF Dashboard for «NoNameCon 2018» Jan 2018 - May 2018</b>
<b>Project Description:</b>	NoNameCon is a 100% community-built practical cybersecurity conference in Kyiv, Ukraine. There were several workshops and a CTF game held during the event. I was working on the admin application for the CTF game, while the CTF team created the tasks and configured servers to call the API request to the admin part in case a flag is captured or lost.
<b>Customer:</b>	<a href="https://nonamecon.org/">https://nonamecon.org/</a>
<b>Project Role:</b>	Full-Stack developer, Game-Master's assistant.
<b>Responsibilities:</b>	<ul style="list-style-type: none"> <li>Creating API endpoints,</li> <li>writing UI on vanilla JS</li> <li>Maintaining servers during the game.</li> </ul>
<b>Project Team Size:</b>	2 developers, 3 game masters, 3 Game designers
<b>Tools &amp; Technologies:</b>	Python, Flask, Flask-SQLAlchemy, Redis, Gitlab CI
<b>Project:</b>	<b>Cybersecurity Olympiad «HackIT-2015» Jan 2015 - Mar 2015</b>



<b>Project Description:</b>	«SecureVPN» is a service created for the Cybersecurity Olympiad «HackIT-2015» with deep integration of fake payment service that allows users to get a paid VPN server and connect to any other servers in the network. The Service was based on an open-source project with hooks for OpenVPN that I had to rewrite for the game's needs. The whole infrastructure had 2 VPN servers located in Amsterdam and Singapore, a billing system located in Toronto and a payment system in Singapore. Back-end was rewritten to add flags and integrate the product with 3rd party payment systems.	
<b>Customer:</b>	Ukrainian Non-Government Organization «Ukrainian Information Security Group»	
<b>Project Role:</b>	Full-Stack developer, Game-Master's assistant.	
<b>Responsibilities:</b>	<ul style="list-style-type: none"> <li>▪ Adding and configuring VPN, SQL and web servers using Chef.</li> <li>▪ Integrating fake payment system with the services,</li> <li>▪ adding vulnerabilities and fixing existent ones.</li> </ul>	
<b>Project Team Size:</b>	1 developer, 2 game masters, 2 security researchers.	
<b>Tools &amp; Technologies:</b>	Ruby 2.1, Ruby on Rails 4.2, Chef	
<b>Project:</b>	<b>Cybersecurity Olympiad «HackIT-2015»</b>	<b>Jan 2015 - Mar 2015</b>
<b>Project Description:</b>	«SecureVPN» is a service created for the Cybersecurity Olympiad «HackIT-2015» with deep integration of fake payment service that allows users to get a paid VPN server and connect to any other servers in the network. The Service was based on an open-source project with hooks for OpenVPN that I had to rewrite for the game's needs. The whole infrastructure had 2 VPN servers located in Amsterdam and Singapore, a billing system located in Toronto and a payment system in Singapore. Back-end was rewritten to add flags and integrate the product with 3rd party payment systems.	
<b>Customer:</b>	Ukrainian Non-Government Organization «Ukrainian Information Security Group»	
<b>Project Role:</b>	Full-Stack developer, Game-Master's assistant.	
<b>Responsibilities:</b>	<ul style="list-style-type: none"> <li>▪ Adding and configuring VPN, SQL and web servers using Chef.</li> <li>▪ Integrating fake payment system with the services,</li> <li>▪ adding vulnerabilities and fixing existent ones.</li> </ul>	
<b>Project Team Size:</b>	1 developer, 2 game masters, 2 security researchers.	
<b>Tools &amp; Technologies:</b>	Ruby 2.1, Ruby on Rails 4.2, Chef	
<b>Project:</b>	<b>UISGCon 11(2015)</b>	<b>Oct 2015 - Dec 2015</b>
<b>Project Description:</b>	«FindMeGetMe» is a fake Dating website with an API for mobile application created for a CTF(Capture The Flag hacking game)	



	<p>organized for UISGCon 11(2015) - Ukrainian InfoSec conference held by Non-Government Organization «Ukrainian Information Security Group» This Fake Dating website was created for security researchers and had no real users or profiles. It was created with pre-defined vulnerabilities related to Redis and Sockets. I used a Free design and added a vulnerable Rack application that gets photos from Redis service using Sockets technology.</p>
<b>Customer:</b>	Ukrainian Non-Government Organization «Ukrainian Information Security Group»
	<a href="https://uisgcon.org/">https://uisgcon.org/</a>
<b>Project Role:</b>	Full-Stack developer, second Game-Master
<b>Responsibilities:</b>	<ul style="list-style-type: none"> <li>▪ Creating back-end</li> <li>▪ integrating design</li> <li>▪ configuring and optimizing web, Redis servers,</li> <li>▪ monitoring services and the application during the games.</li> <li>▪ Creating API for a mobile app.</li> <li>▪ Creating mobile app using React Native.</li> </ul>
<b>Project Team Size:</b>	1 developer, 2 game masters, 2 security researchers.
<b>Tools &amp; Technologies:</b>	Ruby 2.2, Sinatra, Redis, JavaScript, React Native 0.15
<b>Project:</b>	<b>grunt-coffee-chain - grunt plugin</b>
<b>Project Description:</b>	A grunt plugin inspired by Sprockets to compile CoffeeScripts that has sprockets-style comments to indicate dependencies. It allows web developers in their CoffeeScript files to write Sprockets-style comments to indicate dependencies. This ruby gem is written in CoffeeScript, but it compiles itself to JavaScript using the previous version of itself.
<b>Customer:</b>	Open-Source Community
<b>Project Role:</b>	JavaScript developer
<b>Responsibilities:</b>	Full-stack developer, Support of the OSS
<b>Tools &amp; Technologies:</b>	CoffeeScript, JavaScript, Node.js 0.10.15, Grunt 0.4, Sprockets, Snockets
<b>Project:</b>	<b>AsanaGodContact - ruby gem</b>
<b>Project Description:</b>	A gem for sending notifications to Asana using god.rb tool. God.rb is an easy to configure, easy to extend monitoring framework written in Ruby. <a href="http://godrb.com/">http://godrb.com/</a> Asana is a web and mobile application designed to help teams track their work. This OSS ruby gem allows apps to send notifications to Asana in case God.rb raises an issue with your ruby app.
<b>Customer:</b>	Open-Source Community

## Roman Rott

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Ruby/JS Full-Stack developer, Cybersecurity Enthusiast

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**Project Role:** Ruby developer

**Responsibilities:** Full-stack developer, Support of the OSS

**Tools & Technologies:** Ruby 2.1, Mocha, Minitest