

# Roumen Pavlov

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## Skills

<i>Languages</i>	Ruby, Python, Shellsript, SQL, HTML, CSS, Javascript, Java, Clojure
<i>Frameworks</i>	Rails, Django, Flask, jQuery, React, AngularJs
<i>Data</i>	Mysql, Postgresql
<i>Platforms</i>	Google Cloud Platform, Amazon Web Services, Digital Ocean, Heroku, Linux, Windows
<i>Tools</i>	Docker, Ansible, Kubernetes, Git, nginx

## Professional experience

<i>Sysadmin</i> 10-2019 – Present	<p><b><a href="https://medical.edu.mt">https://medical.edu.mt</a></b> is an accredited online medical college offering a 5 year virtual program including placement within a network of teaching hospitals for practical training.</p> <p>Managed the Office365 tenant for all back-office staff, external freelancers and students.</p> <p>Administered dozens of internal and external services hosted on Google Cloud in addition to critical infrastructure for DNS, firewalls, monitoring and alerting. Audited firewall rules, IAM and implemented VPC segregation where possible.</p> <p>Deployed custom load balancers for greater control over routing between services, with hardened configs for DoS mitigation and security.</p> <p>Rolled out password managers and 2FA for sensitive admin accounts in key services.</p>
<i>Security Engineer</i> 04-2019 – 10-2019	<p><b><a href="https://securesystems.de">https://securesystems.de</a></b> is a consultancy specializing in application and container security, compliance and risk assessment. The client project at this time was the AutoTicket vignette tracking and payment system commissioned by Kapsch.</p> <p>Implemented NodeJS package dependency vulnerability scanning into CI/CD pipelines for 40+ micro-services.</p> <p>Researched and implemented additional SonarQube rules to strengthen vulnerability and code-smell detection.</p> <p>Scanned all client repositories with trufflehog and git-secrets in order to reveal sensitive commits, such as api keys and tokens.</p>
<i>Consultant</i> 04-2018 – 11-2018	<p><b><a href="https://tealvalley.com">https://tealvalley.com</a></b> is a web platform for doctors, clinicians and their patients to prepare and fulfill prescriptions for narcotics.</p> <p>Setup and managed AWS infrastructure for Rails API and frontend applications across multiple production and development environments. This included networking configuration for DNS, SSL and Cloudflare as well as AWS related components such as subnets, firewalls and security groups.</p> <p>Setup various 3rd party services for continuous integration, monitoring and credentials management in addition to others used by the core applications such as Elasticsearch and Redis instances. Containerized the API with Docker and setup a registry and deployment workflow in Amazon ECS. Managed credentials for all team-member accounts and services, including IAM roles.</p> <p>Ran sprints and prioritized tasks for other developers. Worked closely with non-technical team-members to answer questions and discuss trade-offs. Created and maintained documentation describing key pieces of the projects as well as onboarding instructions for running locally.</p>
<i>Consultant</i> 11-2017 – 05-2018	<p><b><a href="https://qoints.com">https://qoints.com</a></b> is a digital marketing benchmarking platform and social media influencer analysis tool. It performs personality analysis using IBM Watson and tensorflow, with input from a user's Twitter content.</p> <p>Managed AWS infrastructure and implemented various features for the Django API server and React client application, such as geographic filtering for user profiles. Modified the existing payment system and Stripe API integrations in order to add a free-tier. Interviewed and mentored junior developers. Worked closely with non-technical team-members to answer questions and discuss trade-offs.</p>

*Consultant*  
04-2017 – 08-2017

**<https://factu.ly>** is an MVP that aims to address the problem of fake news by allowing users to upload and annotate articles, and to rate their accuracy and bias.

Built a web application that scrapes article headlines and content from submitted urls, and allows selected text snippets to be annotated and rated. Built a chrome extension that indicates scores and comments for any article currently being viewed, if it exist in the backend.

Created re-usable Ansible automation scripts for server provisioning and deployment of Rails applications.

*Consultant*  
11-2016 – 03-2017

**<https://freshsqueezedideas.com>** is an evidenced-based marketing and design agency. They commissioned a web application for building and administering multi-stage surveys to market research participants. Subsequent stages are dynamically composed of choices from previous steps, and customizable reports are made available to administrators.

Full lifecycle project development; requirements gathering, estimation, sprint planning, release and maintenance.

*Consultant*  
03-2016 – 02-2018

**<https://thecouncil.on.ca>** is the bargaining agent for the 24 Ontario colleges in negotiating collective agreements with unionized staff. Their technology stack consists of a Rails 3 CMS with a separate layer for managing arbitrations, and creating multi-step and multi-party scheduling workflows.

Fixed numerous bugs around the logic dealing with scheduling time-slots. Migrated all Rails infrastructure from Linode to Digital Ocean. Created a re-usable development virtual machine for Ruby on Rails applications. Implemented basic dev-ops processes such as scheduled backups on S3.

*Consultant*  
02-2015 – 04-2015

**<https://bitmaker.co>** is a well established code academy that equips students with in-demand technical skills and facilitates connections to local companies.

Built the main brochure site based on design mockups and static html. Added CMS functionality to enable news and events posting.

*Software engineer*  
09-2013 – 09-2015

**<https://shifthealth.ca>** provides a platform for administering surveys in clinics and hospitals for collecting patient reported health data.

Built an offline-capable AngularJs single-page app for use on iOS and android mobile devices.

Expanded the backing Ruby on Rails back-end to support reporting, i18n, encrypted backups and deployment automation. Improved stability of the projects by implementing continuous integration, monitoring, integration testing, a strict git branching model, code reviews and sprint planning.

*Software engineer*  
05-2011 – 06-2012

**<https://www.thinkresearch.com>** is a suite of tools and services for managing digital versions of hospital order sets. Primarily responsible for feature development, testing and maintenance of a medical document parser. The tool also serves as a CMS, also allowing for modification and versioning of order-set document content.

Developed various features and improvements for a pdf document parsing engine. Ensured cross-browser and IE7+ backwards compatibility.

Participated in and led biweekly sprint feature planning, ticket breakdown and design discussions

*Software engineer*  
03-2010 – 04-2011

**<https://fieldid.com/>** is an asset management and inspection scheduling system for the construction and manufacturing industries.

Full lifecycle software development for a Java Spring web application. Participated in and led biweekly sprint feature planning, ticket breakdown and design discussions

## Education

2010 | **University of Toronto, St. George, Toronto**

Hons. B.Sc, Computer Science: Software Engineering.