

Yuri Prezument

Software Developer | Building and maintaining production software since 2011

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Experience

Independent Software Consultant / Backend Lead

2019 – Present

Backend systems, web applications, and software architecture for long-term clients.

- Backend development lead for a consumer health product: the platform behind a wearable sensor and its app, down to firmware update delivery.
- Backend work on a cryptocurrency exchange.
- Integrating data-analysis algorithms into the production backend.
- Machine learning model integration: PyTorch, TensorFlow, Keras and scikit-learn time-series models, served in production behind one API.
- A standalone authentication service: OAuth login for third-party apps, rate limiting.
- Internal dashboards for support, admin, and reporting: live updates over SSE, PDF export, field-level encryption, 2FA.
- Data pipelines and reporting: MongoDB aggregation pipelines, BigQuery.
- Cloud infrastructure across Heroku and Google Cloud: Terraform, Docker, CI/CD.
- Load testing and capacity work: k6 scenarios, baselines before and after performance changes.
- Test suites and the release discipline a medical device requires: formal verification and validation, software design documents, security documentation, SBOM generation and vulnerability scanning.

Senior Software Engineer, Tripp Lite

Nov 2018 – Jul 2019

Worked on the software layer of smart UPSs and PDUs.

- Designed and built backend microservices in Python.
- Network and system configuration, security, authentication and authorization, logging, monitoring, notifications, a CLI client and APIs.
- Service communication over gRPC, REST (JSON:API) and Redis pub/sub.
- Automated the configuration of the Linux server's network interfaces.
- Coordinated integration work across teams.
- Improved the continuous integration process (Jenkins, Docker).
- Agile development in Scrum.

Technical Co-Founder, inboundli

2014 – 2018

inboundli was a content curation platform: automated content search, personalization and distribution, with machine-learning recommendations, built to help companies multiply their content output on their key marketing channels.

- Built the platform end to end, from the first line of code to a self-sustaining SaaS business.
- Led R&D and much of the product work.
- Specification, development and maintenance of the entire SaaS platform and its services.
- Machine learning for content recommendations, and the data analysis behind it.
- A 300GB PostgreSQL database: performance optimization and tuning.
- Continuous integration and deployment workflows.
- It started in 2014 as Townfrog, an app for discovering events and places, and pivoted within months.
- Also built appenguin (2017 – 2018), a generator that turned websites into Android apps (Kotlin, Python).

Backend Developer, Tomigo

2013

Built the backend infrastructure for Tomigo's social recruiting platform.

- Developed the backend application.
- Built a REST API for the mobile and web clients.
- Built a notification system: email notifications, periodic emails, and push notifications for the mobile apps.
- Deployed and maintained the Linux server stack.

Software Developer, Modlin Online Services

2011 – 2013

Software development on the infrastructure behind an online forex brokerage, as part of its development team.

- Developed web applications and backend services.
- Worked on the trading platform integration.
- Worked with the message queues connecting the services: RabbitMQ, ActiveMQ, ZeroMQ and Gearman.

Freelance Software Developer / Consultant

2011 – 2013

Part-time consulting on several software projects.

- Built and maintained web applications with Python, Django, and some PHP.

Technologies

Programming languages

Python, JavaScript, Kotlin, Java, PHP, Bash, SQL, HTML/CSS

Backend

Flask, Django, Django REST framework, REST APIs, gRPC, Celery, Gevent, SQLAlchemy, Jinja, OAuth, JWT, Node.js, Scrapy

Frontend and mobile

htmx, Alpine.js, Vue.js, KnockoutJS, esbuild, Android SDK, Gradle

Data

PostgreSQL, MongoDB, MySQL, Redis, Memcached, BigQuery, pandas

Messaging

RabbitMQ, ActiveMQ, ZeroMQ, Gearman, Google Cloud Pub/Sub

Machine learning

scikit-learn, TensorFlow, Keras, PyTorch

Cloud and infrastructure

Linux (Ubuntu), Google Cloud (GCP), Compute Engine, Cloud Monitoring, Docker, Terraform, GitHub Actions, Jenkins, Nginx, Gunicorn, Heroku, Firebase, SNMP

Testing and monitoring

pytest, Playwright, Jest, k6, Sentry

Code quality and security

Ruff, ESLint, Stylelint, axe-core, TOTP 2FA, field-level encryption

Open source

Django REST framework

Contributor

2012 – 2014

django-post_office

Contributor

2013 – 2016

newspaper3k

One of its maintainers

2015 – 2017

django-logentry-admin

Maintainer

2011 – 2021

Stack Overflow

15,000+ reputation

Education

B.Sc., Software Engineering, Jerusalem College of Engineering, 2007 – 2012

Languages

Hebrew (native), Russian (native), English (full professional)

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