

Nikola Kovacevic

Software developer

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About me

I'm a Software developer with six years of work experience with python, C#, and Java, developing primarily web, but also desktop, and mobile applications. Currently working at an innovations center developing modern solutions for areas of highly dynamic hosting/IT infrastructure. In my free time I develop and contribute to open source software. I have extensive experience with developing web applications, RESTful APIs, SQL databases, GUI/CLI applications, version control systems, and to a lesser extent system administration.

Skills and Abilities

- Programming languages: Python, C#, Java
- Databases: PostgreSQL, SQLite, MySQL
- Version Control Systems: Git
- Web Frameworks: Django, Flask, Falcon
- Familiarity with frontend stack: HTML/CSS, JS, React
- Operating Systems: OSX, Linux, Windows
- SQLAlchemy ORM/SQL Toolkit
- Qt Framework bindings (PySide, PyQt)
- Fluent in German, English, and Serbian

Experience

Hetzner Cloud GmbH
Munich, Germany

November 2016 – Present

Senior Software Developer

- Building clouds
- List to be expanded as products get released

3megawatt GmbH
Munich, Germany

August 2015 – November 2016

Lead Software Developer

- Design, develop, and test a solar assets management SaaS platform developed from scratch, with mostly Python/Django backend.
- Work with variety of different frameworks/languages including, but not limited to: Python, Django, Javascript, HTML, jQuery, bash.
- Plan stages and assess business implications for each stage.
- Monitor progress to assure deadlines, standards and cost targets are met.
- Provide technical leadership to teammates.
- Assist in the collection and documentation of user's requirements, estimates and work plans.
- Support application deployments; building, upgrading and patching systems.
- Analyze and resolve technical and product problems.
- Research and evaluate a variety of software products.
- Developing, managing and testing back-up and recovery plans.
- Setup, plan and maintain product infrastructure.

Self employed

January 2012 – August 2015

Freelance Software Developer

- Analyze requirements, design and implement solutions to fulfill business and regulatory requirements
- Developed web applications using Django and flask web frameworks.
- Developed RESTful API endpoints for both new and existing services or implemented it from scratch.
- Increased performance of existing code bases
- Code documentation

D-Soft d.o.o.

January 2010 – January 2012

Computer Repair Technician/
Software Engineer

Prnjavor, Bosnia And Herzegovina

- Diagnosed and repaired hardware and software problems.
- Troubleshoot Desktop, Laptop, and Server systems and work with customers to determine needed hardware and software changes.
- Break down systems, remove malfunctioning parts, and install new parts.
- Maintained comprehensive knowledge of hardware, software, trends, and new releases.
- Maintained records of hardware issues, performance, and supplies.
- Write and deploy custom software solutions for clients.
- Worked on design, installation, and configuration of IT networks.

Languages

- English (Full professional proficiency)
- German (Professional working proficiency)
- Serbian (Native or bilingual proficiency)

Open source projects

Full list of personal projects and projects contributed to available on GitHub: <https://github.com/Nikola-K/>

Subtitle Downloader

Python, XML-RPC

<https://github.com/Nikola-K/pysub>

- Multi-Platform (Linux, Windows, OS X)
- Smart automatic search using difflib and file hash searching
- GUI frontend written using PyQt
- Using XML-RPC API and JSON parsing and processing.
- Clean and documented code

Social news website

Python, Django

https://github.com/Nikola-K/django_reddit

- Responsive frontend design
- Using PostgreSQL as backend database in production
- Written from scratch, utilizing Twitter's Bootstrap
- Highly scalable with support for hundreds of nested comments
- Authentication, registration, and user profiles implemented
- Nested comments stored in modified pre-order traversal tree

Linux tp smapi GUI

Python, PyQt

https://github.com/Nikola-K/tp_smapi_pyqt

- GUI using PyQt 4 framework
- Read and set ThinkPad specific kernel modules values which are exposed through sysfs interface
- Battery charge/discharge control
- Battery status information
- Licensed under permissive free MIT license

Android weather app [WIP]

Java, Android SDK

<https://github.com/Nikola-K/WeatherApp>

- Google Play Services for location services
- Custom JSON API classes and parser
- Data caching
- Android API 19+

Multi-threaded IRC bot

Python, Sockets, SQLite

<https://github.com/Nikola-K/lpbot>

- Python 3 ready
- Multiple threads spawning
- PyPy sandbox wrapper
- Plugin support
- SQLite used for databases
- Interactive configuration
- RFC 1459 almost completely implemented
- Unicode aware