

Alexander V. Nikolaev

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Objective

Experienced software engineer, with 14-years experience in software development, 9-years experience in system administration and have strong problem solving skills, initiative, willing to accept responsibility, strong team player, and strong communication skills. Looking for permanent or contract position (remote, C2C, basic rate \$25-\$35/hour).

Relevant experience and skills

- Hardware/software system integration.
- Operating systems: Linux, Sun Solaris, NetBSD - deep knowledge of system management in unix systems.
 - Proficient knowledge of Nix package manager and NixOS Linux distribution, contributing to nixpkgs, develop custom systems based on NixOS.
 - Deep knowledge of Debian/GNU Linux package management and configuration system.
 - Familiar with other major Linux distributions (both deb- and rpm- based systems, as well as less common)
 - Knowledge of DevOps (familiar with Salt and Ansible, Terraform, basic knowlege of others systems).
- Python (11 years of experience):
 - WSGI stack.
 - Web frameworks (Pyramid, Flask, Tornado)
 - Twisted, asyncio, gevent (asynchronous servers, clients and process dispatchers)
 - SQLAlchemy (custom types, extensions)
- Haskell (1 year of experience)
 - Development of command-line tools, parsers, serializers.
 - Modern Haskell-based web stacks (Servant, Yesod, WAI).
 - Knowledge of Stack, Cabal, and all other related tooling.
- Nix/NixOS (2 years of experience)
 - Proficient packaging various open-source software, as well as knowledge how to deal with proprietary stuff.
 - Maintaining of private tree of packaged custom software.
 - CI and CD toolchains based on Nix
 - Familiar with various language-specific packages (i.e. Go, Python, Ruby)
- Other programming languages and technologies
 - Go (3 year of experience, is not my favorite language, but I know Go well)
 - Basic knowledge of Ocaml, Rust, PureScript, Elm.
 - Various MQ brokers (RabbitMQ, Kafka, Amazon SQS)
 - Erlang (OTP design principles, rebar, cowboy)
 - Lua (including bindings for C/C++ libraries, and contribution to several open source projects.
 - C++ (4 year of experience, proficient use of STL and Boost libraries)
 - shell scripting, development related to system management.
 - Javascript (basic knowlege to troubleshoot cases when clientside code goes into problems).

Can read/understand code in most of modern imperative and functional languages.

- Knowledge of AWS cloud services, experience with Dynamo DB and SQS.
- Proficiency with docker, and related tools.
- Databases (basic knowledge of both SQL and NoSQL including Redis and Riak)
- Knowledge of Sun hardware platform.
- Network protocols: HTTP (including websockets), SMTP, HTTP, XMPP, developing custom protocols based on HTTP (REST/XML-RPC/JSON-RPC). Knowledge of peer-2-peer technologies.

Employment history

2017-2018 LogicEditor (Software Engineer, C2C Contract)

- Develop terminal server, leveraging legacy applications as web based SaaS (including python software to control servers via REST and/or websockets)

2017-2018 Serokell (internship)

- Worked on both customer-side code, and code for inner infrastructure. (Junior/mid-level haskell).

2015-2016 Asteris, LLC (Software Engineer, C2C contract)

- Developed various components of Cisco's Mantl (<https://github.com/mantl/mantl>)
- Develop storage related (LVM/FS) components of <http://converge.asteris.is>
- Performed pre-release testing of Mantl for AWS and OpenStack platforms.

2013-2015 SendGrid, Inc: (Software Engineer, C2C contract)

- Custom tools to benchmark RabbitMQ and Kafka (erlang, and python)
- Develop agent software for CleverDB project (python). Also supported packages of `cleverdb-agent` for major linux distributions.
- Develop go-gmime binding (over 80% of API covered, opensource: <https://github.com/sendgrid/go-gmime>)
- Various other in-house tools and libraries (golang, python, erlang)

2011-2012 LogicEditor (Software Engineer, C2C contract)

- Develop various enhancement for Lua infrastructure, and binding for Lua to third party libraries (most of this activity open sourced, and visible via my github profile)

2010-2011 IT Infrastructure (Embedded Software Engineer, C2C contract)

- Was hired to work fulltime on OpenInkpot project
- developed both system components and applications
- developed various plugins for CoolReader application on LBook e-ink readers

2008-2018 Victoria Nova, UAB (Software Engineer, CTO, owner)

- Various web development (python, django, pyramid, tornado) for customers, including realtime web applications.

2007-2008 DIP Studija (Software Engineer, C2C contract)

- Developed prototype of custom video hosting for in-house usage (storage and server parts) (python, twisted)
- Developed various custom web crawlers. (python, twisted)

2007 ArcusNovus (Software Engineer, C2C contract)

- Development of driver for USB adapter of satellite receiver (both userspace and kernel)

2004-2007 Jet Infosystems (QA Software Engineer)

- Developed system for automatically regression testing of complex software system.
- Administrated farm of servers for QA (Solaris and Linux)
- Developed scripts for automatic deployment OEM software.
- Developed automatic and interactive installers for solaris based software
- Developed log analyzer component for “Z-2 Firewall” (perl)

2002-2004 AltLinux (Software Developer)

- Prototyping automated build and test environment which led to 3 times shortening build/test/improve cycle. Setting up isolated environments for software packages building.
- Developed several components for configuration management system for firewall appliance (C++)
- Prepared Debian/GNU Linux DVD images to release (with additional packages with cyrillic fonts, and AltLinux developed software)

2000-2002 TransSoftMedia (Software Developer)

- System integration for videoconferences and IP-phone appliances pre-production prototypes (C++,perl).
- Produced installable packages from difficult source code. Proficient use of autoconf, automake, RPM and Dpkg packaging tools.

Spoken languages

- English (fluent)
- Russian

Professional interests

- NixOS linux distribution
- Functional programming languages
- Compilers and code generations

Links

- LinkedIn: <https://linkedin.com/in/avnik>
- GitHub: <https://github.com/avnik>

Notes

- Have EU residence status/work permit, can work as staff member (remote) or as independent contractor (C2C contract).
- As a C2C contractor I need no visa and no explicit work permit to work remotely in US/UK/other EU countries