Alexander V. Nikolaev

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Objective

Position of software developer in unix oriented project (remote).

Summary

12-years experience in software development, 7-years experience in system administration, strong problem solving skills, initiative, adaptability, willing to accept responsibility, willing to learn, strong team player, and strong communication skills.

Accustomed to working independently, as part of a team, or leading a team of engineers.

Relevant experience and skills

- Hardware/software system integration.

- Operating systems: Linux, Sun Solaris, NetBSD - deep knowledge of system management in unix systems. Deep knowledge of Debian/GNU Linux package management and configuration system. Knowledge of DevOps (salt, ansible).

- Python (7 years of experience):

  - WSGI stack.
  - Proficient knowelege of ZCA (Zope Component Architecture, but not Zope/Plone itself)
  - Buildout, and other python-based deploying technologies.
  - Twisted (asynchronous servers, clients and process dispatchers)
  - SQLAlchemy (custom types, extensions)
  - Web frameworks (pyramid, flask, tornado)

- Other programming languages

  - 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 (not expert, but enought knowlege to troubleshoot cases when clientside code goes into problems).
  - Go (1 year of experience)
  - Basic knowledge of Ocaml and Haskell

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

- Knowledge of AWS cloud services, expirience 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: H.323, SMTP, HTTP, XMPP, developing custom protocols based on HTTP (REST/XML-RPC/JSON-RPC). Knowledge of peer-2-peer technologies.

Employment history

Victoria Nova (Lithuanian company)

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Lead developer, CEO, CTO, company owner
(April 2008 -- now)
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- Contract work for SendGrid, inc:
  - Custom tools to benchmark RabbitMQ and Kafka (erlang, and python)
  - Develop agent software for http://cleverdb.io project (python, opensource: https://github.com/sendgridlabs/cleverdb-agent), also support packages of cleverdb-agent for major linux distributions.
  - Develop go-gmime binding (over 80% of API covered, opensource: https://github.com/sendgrid/go-gmime)
  - Varoius other in-house tools and libraries (golang, python) (2013-2015)

- Contract work for LogicEditor: Develop various enchancement for Lua infrastructure, and binding for Lua to third party libraries (most of this activity open sourced, and visible via my github profile) (2011-2012, lua)
- Contract work for customer, who wants to be anonymous Support of realtime web application in python (tornado), optimising memory usage. (2013, python, tornado)
- Contract work for "IT Infrastructure, Kiev": Was hired to work fulltime on OpenInkpot project, developed both system components and applications (2010-2011, c,c++)
- Contract work for "IT Infrastructure, Kiev": development various plugins for CoolReader application on LBook e-ink readers (2010, c++)
- Various web development (python, django/pyramid) for customers

DIP Studija (Lithuanian company)

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Software developer
(March 2007 -- April 2008 as staff)
(April 2008 -- August 2008 as independent contractor)
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- Developed custom video hosting for in-house usage (storage and server parts) (python, twisted)
- Developed various custom web crawlers. (python, twisted)

Jet Infosystems (Russia)

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(June 2004 -- 2007)
QA Engineer and software developer.'''
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Developed system for automatically regression of complex software system. Administrated farm of servers for QA (system noted above) Developed scipts for automatic deployment OEM software. Developed automatic and interactive installers for solaris based software Developed log analyzer component for "Z-2 Firewall" (perl) Developed customized version of bug tracking database. (perl) Developed tool for generate appliance platform from set of debian packages

AltLinux (Russia)

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(August 2002 --- June 2004)
Software Developer
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- 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 Chainmail (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)

Moscow, Russian Linux Media Labs LLC (US company) operation

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(October 2000 -- July 2002)
Software Analyst and Developer
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- 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 — excellent written english, fluent spoken.
- Russian — mother tongue
- Lithuanian — fluent

Professional interests

- Compilers and code generations (especially LLVM)
- Functional programing languages
- NixOS linux distribution

Links

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

Notes

- Have EU work permit, can work as staff member (remote) or as independent contractor (b2b contract).
- References are available upon request.