**Pavel Semenov**

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**Summary of Qualifications**

* 3+ years of experience in design, development, testing, debugging, reverse engineering and development of various applications using core Java, Python, C# , MVC, Oracle PL/SQL, HTML/XML, PHP services and Bash/Ksh.
* Strong knowledge in Core Java and OOP concepts.
* Excellent team player, quick learner and self-motivated with good interpersonal and communication skills.
* Ability to organize, prioritize, plan and work under extreme work pressure, heavy work load and deadlines.
* Experience with Integrated Development Environment (IDE) application development. Good command over application development stages. Requirement gathering, analyzing, research/development, testing, designing, debugging, deployment and final delivery.
* Experience development of software for a network (cloud) architecture and network security such as switches, routers and protocols.
* Professional understanding of cyber security concepts including data loss prevention, PKI, tokenization, cryptography, and more.
* Experience with Unix/Linux RHEL/CentOS/Debian/Kali, MS Server, Linux RHEL 5/6/7, SuSe, Ubuntu, \*NIX, Mac OS X, VMWare/VirtualBox, Xen Server/Hypervisor, Web Server.
* Experience troubleshooting security with Metasploit, Burp Suite, Maltego, ReconNG - home projects.
* OSCP, GPEN, OSCE, and CISSP in progress - home projects.

## Technical Skills

Programming Skills Core Java, Python, C, C++, C#, PL/SQL, HTML, CSS, XML, PHP, JS, Bash/Ksh

Software IDE: MS Visual Studio, Eclipse, Oracle SQL Developer and Mono Develop(C#)

Networking LAN/WAN Routing/Switching, VPN, VTP/TRUNK, SSL/TLS, Firewalls ACL/EACL and Authentication

Graphic Design Software Adobe Photoshop 6, Corel Painter, blender 3d

Functional Skills Software Architecture, Object Oriented Programming , Software Engineering, Agile environment

Database: MySQL, Oracle PL/SQL

Operating Systems: Windows,UNIX/Mac OSX, Linux

**Education**

DeVry University – Chicago, IL Sept. 2009 – Feb.2012

Bachelors of Computer Science

GPA: 3.75 of 4.00

**Professional Experience**

Bank of America – Chicago, IL Dec., 2014 – Nov. 2016

Application Programmer/Developer

The project involved building a repository in Oracle Exadata Cluster in order to store user entitlements for Identity and Access Management (IAM) Applications, preparing integration flows to load data with APIs for auto-provisioning processes using Python. Pythons' Pandas and numpy for better performance on computing API internals. Worked with onshore/offshore teams and did production support.

The following tools were used:

* Java/J2EE/Rest API/JBoss/JavaScript/JSON/AngularJS
* PL-SQL Oracle/MySQL/Bash for creating API and direct load connections;
* SFTP/SCP/NDM custom file transfer assemblies for external oracle tables;
* Java database query with Oracle materialized views, triggers, functions, procedures and packages;
* Create/Insert/Update/designed junction tables, triggers, functions, procedures, packages PL/SQL Oracle tables;
* Bash/KSH/Python scripting for external table flat files and PL/SQL;
* Worked with Toad/SQL Developer (oracle);
* Pandas and numpy
* Unit/Integration/System/Performance/Security testing
* Microsoft Visual Studio with nugget packages and web-portal GUI front-end in aspx/MVC5 cshtml css js;
* Versions tracking with Visual Studio Team Foundation Server and updated various directory versions.
* Utilized Python in the handling of all hits on Django Redis and other applications
* Developed Python based API (RESTful Web Service);
* Managed transformation from FTP to NDM ( IBM Connect:Direct) and SFTP for flat-file snapshot transfers to data-hub;
* Git/GitHub/GitLab

Intel – Champaign, IL May, 2012 – May, 2014

Cluster Systems/Network Engineer (aka Developer)

The project involved building monitoring and deployment tools for an R&D laboratory working on clustered servers (colloquially known as “mainframe” or “supercomputer”) that execute code across multiple platforms. Developed cluster testing tools for custom in house application on all/most modern Intel servers/Xeon Phi cards.

* Java/J2EE/JSON/JavaScript/SQLite3 for creating API and tools built on OpenMPI/ Java mpj library;
* Django and/or Flask**/** AngularJS
* Java ME developer parallelization API for over clusters communication on TCP-stack;
* Developed cluster monitoring tools based on SNMP Java MIB API for preproduction servers tools;
* Worked with a clustered network equipment over Ethernet / Infiniband (Optical and copper cable)
* Built a remote SNMP Java MIB API for Mellonox Infiniband /Cisco, Juniper Ethernet switch configuration.
* Reviewed requirements for internal clients specific built-ins;
* Assisted in evaluation and proposals of development requirements in cluster network software,
* Worked with RHEL, Cent-OS, SUSE and other Linux systems;
* Developed Linux kernel for usage with Luster FS distributed storage over cluster network ;
* U/EFI and Shell scripting and bash/ksh/python
* Used Python to develop a working and efficient network within the company R&D laboratory
* Wrote multiple programs in Python to monitor virtual machine usage data using VMWare API calls
* APIs for I2C SPI re-imaging embedded BIOS software on servers and Infiniband switch.
* Git/GitHub/GitLab

Hyper Microsystems – Vernon Hills, IL

Contract Position Jan. 2011 – Jan. 2012

Developer

Project involved building server end APIs for MySQL/Oracle database maintenance

and automation of storage networks.

* Java EE development on Linux Servers environment;
* Java API development for system/network testing and issue resolution process;
* Developed APIs for NAS, SAN and Storage Virtualization;
* Assisted in evaluation and proposals of network hardware, software, and monitoring tools based on Java development requirements;
* Java development for monitoring, optimized storage capacity (NAS), data availability, storage area architecture;
* Documented system configuration, operating procedures and prepared presentations for future Java development activities;
* Agile Development using Django/Python in Linux OS;

JP Morgan Chase Bank – Illinois Apr. 2009 – May 2010

Technical support

* Servers/Printers installation and support for multiple client company branches,
* Assisted in testing of network printer hardware and software,
* Configured, implement, and troubleshoot employee PC client stations.