Vitaly Repin | Curriculum vitae

Espoo, Finland

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Looking for a challenging position in the open source software engineering

Skills

Programming languages: C, C++, Tcl/Tk, Perl, assemblers (x86, ADSP), Pascal

Protocol stacks: VoIP (SIP, MGCP, H.323, Skype), SS7

Operating systems: Linux, RTLinux, MeeGo, Maemo, DOS

Software development methodologies: Extreme Programming (XP), SCRUM

Applications: Asterisk, LTSP (Linux Terminal Server Project), Drupal CMS, Jekyll, MTAs etc

Other: OOA/OOD/OOP, Qt, SQL, shell scripting languages, Excel Switching System (EXS), theory and practice of DSP, OSS/BSS development experience

VCS: Git, Subversion, CVS   **Databases**: MongoDB, MySQL, Oracle 9

Education

State Polytechnical University   **St. Petersburg, Russia**

Master of Science   *1996–2002*

M.Sc. project: remote IP control system for high-precision spectrum analyzer

Certifications

2010: Certified SCRUM master   *Danube Technologies*

2013: M. Odersky. Functional Programming Principles in Scala. EPFL online.   *With distinction*

2014: Gamification. University of Pennsylvania online

2014: M101P: MongoDB for Developers   *MongoDB, Inc.*

2014: M102: MongoDB for DBAs   *MongoDB, Inc.*

Honors

○ «Harmattan Hero» cup. Nokia MeeGo award for exceptional contribution to Nokia N9 delivery

○ Bachelor thesis got diploma at the All-Russian competition of students research papers

○ Two times won the grants in St. Petersburg competition for students, PhDs, young scientists and specialists

○ «Skype developer of the month» for cross-platform C++ library to work with Skype API (2007)

Experience

Independent contractor   **Espoo, Finland**

Software developer   *2014–2015*

○ Automated order placement system (Apache Thrift, MongoDB, python) for a startup company — architecture, development and integration with Eliademy e-learning platform.

○ Client bandwidth management system for VPN provider based on Linux Traffic Control (perl and shell scripting).

CBTec Oy   **Helsinki, Finland**

CTO and senior software engineer   *2012–2013*

Architecture, project management, software development.

○ Architecture of the Eliademy e-learning platform.

○ Nokia N9 maintenance. Bug fixes for maintenance softwate updates and troubleshooting the end-user problems (applications and system software, battery life).

○ Creation of the IT infrastructure for startup company.

Nokia Oyj, Maemo/MeeGo **Helsinki, Finland**
Software architect and Technical Product Owner *2008–2012*
Architecture, project management, team leadership

- E-Mail subsystem for Maemo and Meego platforms (N900 and N9 Nokia devices). POP3, IMAP4 and SMTP protocols. Brought Qt Messaging Framework (QMF) to the platform. Leading cooperation with Qt unit on QMF.
- MailForExchange ActiveSync (AS) platform feature (synchronizations of contacts, calendar and e-mails with MS Exchange server, device provisioning). AS protocol was implemented from scratch. Integration with power management. Communication with end-users through maemo.org community portal.

Nokia Oyj, OSSO/Maemo **Helsinki, Finland**
Software engineer *2007–2008*
Application software development, code reviews, troubleshooting, cooperation with offshore team.

- Skype and Rhapsody applications for N800 and N810 Nokia Internet tablets. Development of the methodology for VoIP voice quality measurements and embedding it into the testing process. Working on adaptive jitter buffer solution for Skype in close cooperation with middleware engineers.
- Integration of Java SWT with N810 (inlcuding integration with Mozilla-based platform browser) to demonstrate in the technological show run by Nokia and IBM.

Ice Brains Software Co., LLC. **St. Petersburg, Russia**
Team leader *2005–2007*
Customer communications, software architecture, team leadership.

- Custom software development. Different VoIP projects based on Skype, Asterisk (H.323 and MGCP) and LTSP.

Inotech Co., Ltd **St. Petersburg, Russia**
Team leader *2003–2005*
Team leadership (including software development process setup), interactions with customers.

- Billing system development (part of BSS, PLATEX v.3). This system was used by variety of telecommunications operators in CIS.

Inotech Co., Ltd **St. Petersburg, Russia**
Senior software developer *2001–2003*
System design, low-level software development.

- Development of EXS-based call center solution for placing long distance calls. The customer was one of the largest communication providers in St. Petersburg. EXS switch is connected to the PBX (Siemens EWSD) via SS7 and is managed by call center software via TCP/IP. I was responsible for overall system design, EXS setup and configuring, EXS connection to PBX via SS7, EXS management via TCP/IP, IVR imlementation.

Komin Co., Ltd **St. Petersburg, Russia**
Software developer *1999–2001*
Low-level and embedded software development.

- Design and implementation of the remote IP control system for the high-precision spectrum analyzer. Outcome of the project — UNIX server and Windows client connected through Internet.
- Design and implementation of the host (controller) software for the AudioCodes-based voice compression system prototype.
- Design and implementation of the software for the proprietary data acquisition board. I was responsible for the driver (loadable kernel module for RT Linux) and user space application (GSM speech and signaling decoder with Qt-based GUI running on Linux).
- Design and implementation of the software-based customizable DTMF detector (DSP).

Languages

English: Full professional proficiency

Swedish: Professional proficiency, statsförvaltningen svenska

Russian: Native proficiency

Personal qualities

- Creative, self-directed, ability to learn new technologies/projects quickly, ability to work under pressure, experienced team lead.
- Hobbies: photography, cycling and studying humanities.
- Personal blog: http://vrepin.org