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KIRILL, BURTSEV

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EMPLOYMENT

Software Engineer   **The Qt Company, www.qt.io, Berlin, Germany**   **August 2018 - Present**

- Worked on improving Qt WebEngine module – chromium embedding within Qt/QML APIs.
- Performed hardening of programming interfaces, runtime behaviors and user documentation, which increased usability and simplicity of their usage even by beginner programmers.
- Ensured flawless functioning of module's runtime in its key usecases – on small low power devices with touch screen for automation/automotive field and for full featured open source desktop browser implementations.
- Implemented multiple new Qt/QML APIs for module: Web Notification, Certificate handling, Loading state, etc.
- Streamlined C++ and QML API implementations within critical transition away from Qt 5. Addressed accumulated API design issues, which significantly decreased maintenance burden for the next generation WebEngine in Qt 6.
- Engaged with customers for in-depth issue analysis and technically consulted on using Qt framework efficiently.
- Closely cooperated with open-source maintainers of web browsers on top of WebEngine (qutebrowser, Falkon).
- Mentored junior teammates, gave guidance in coding and code review for newcomers and external contributors.

Software Engineer   **STC, www.stc-spb.ru, Saint-Petersburg, Russia**   **May 2014 – March 2018**

- Designed transport layer framework atop CORBA technology for distributed processing of radio signals.
- Integrated multiple internal projects from other teams within framework pipeline, which allowed to go from offline to realtime data processing, and also to increase throughput x1000 by scaling horizontally.
- Developed GUI control program with custom visualizations for managing remote components within data pipeline, which eventually lead to introduction of a new product with 20+ new business contracts.
- Implemented CI/CD workflow and set up infrastructure for it. Introduced integration testing for the project.
- Mentored 4 developers and support engineers by planning work, giving guidance in implementation and learning.

Software Engineer   **Elecard-med, www.em70.ru, Tomsk, Russia**   **March 2011 – April 2014**

- Performed requirements gathering, implementation and testing of new GUI modules and database structures within existing medical system to assist doctors in keeping electronic medical history.
- Optimized database and data flows to allow automatic report generation in medical facilities without human resources to be in compliance with local laws for reporting and accounting medical information.
- Implemented CI. Ported the app for Linux to cut costs in 2 public hospitals by using open source environment.
- Designed and implemented abstraction layer and GUI framework for seamless program functioning in autonomous mode without connection to database.

EDUCATION

Tomsk, Russia   **Tomsk Polytechnic University**   **Fall 2006 – Summer 2010**

- Bachelor of Engineering and Technology in Computer Science. Undergraduate coursework: supervised image classification algorithms development and evaluation for detection of oil spills in Siberian forests.

Languages and Technologies

- C++, boost, gtest, Qt/QML, cmake, git, javascript/html/css
- SQL, SQLite, PostgreSQL, PL/pgSQL
- Python, pytest, swig, buildbot, GNU/Linux, shell scripting, administering, git, gerrit, Jira, Confluence