Kamil Kisiel

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PROFILE

I'm a multi-disciplinary software developer with a broad skillset that always enjoys a new challenge. I work well both in a collaborative team environment or solve problems independently.

EXPERIENCE

Senior Software Engineer, Synervoz Communications Inc. — 2022-Present

I am working on machine-learning based noise filtering, acoustic echo cancellation, and other audio enhancement libraries with a focus on building cross-platform software for desktop and embedded platforms. I maintain the CMake-based cross-platform build system.

President & Principal Developer, Alces Technologies Inc. — 2014-Present

Alces technologies is an inter-disciplinary consulting company with projects in a wide variety of domains. Major projects include: Thomson Reuters Eikon Messenger XMPP and data mining and analysis of real estate data for the Cullen Commission money laundering inquiry in British Columbia. See alcestech.ca for a complete list of projects.

Lead Firmware & Software Developer, Intellijel Designs Inc. — 2015-2022

I developed firmware including device drivers, user interfaces, and DSP algorithms for consumer music electronics running on ARM Cortex-M and AVR MCUs using C and C++. I was responsible for designing the core libraries used across the entire product range, and maintaining the CMake-based build system and test suites. I developed cross-platform desktop applications for macOS using Objective-C and C++ and for Windows using C# and C++ using both native system libraries and the JUCE framework.

Infrastructure Engineer, Kiip Inc. — 2013-2014

I Implemented back-end integration with the LinkedIn API using Python, and transitioned an in-house data processing pipeline to use Amazon Elastic Map Reduce.

Software Developer & Systems Engineer, Zymeworks Inc. — 2007-2013

Using the Go and Python languages I created a system for distributed scientific workflow automation (patent 10255409) that could handle hundreds of thousands of parallel job. I authored libraries and frameworks to support the development of protein simulation tools. I also maintained the software development environment, bug tracker, and continuous integration services. I was the sys admin for an on-premise HPC cluster running Sun GridEngine.

Software Development Intern, Armonicos Co. Ltd. — 2006-2007

I developed graph algorithms in C++ with the Boost Graph Library for identifying connected topologies in 3D mechanical CAD models based point-cloud scanner data.

EDUCATION

Simon Fraser University — BASc, Computer Engineering, 2007

SKILLS

Programming Languages

C/C++, Go, Python, Shell Scripting

Computing Platforms

Linux, macOS, Windows, FreeRTOS, bare-metal

Hardware

ARM Cortex-M, ARM-Cortex-A, AVR, HiFi 4/5, Digital circuit design.

Software & Libraries

JUCE, Boost, Tensorflow, PostgreSQL, SQLite, MongoDB, ElasticSearch, RabbitMQ, ZeroMQ

Devops

Linux system administration, CMake, Make, scons, waf, Jenkins, CircleCI, GitHub Actions, Linear, Trello, JIRA, GitHub, GitLab, PivotalTracker

Spoken Languages

English, Polish