

Kristopher Ruzic

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Education

University of Calgary

2012 - 2017

Completed 114 credits towards a **Bsc in Computer Science**

Experience

Vinritech

June 2018 - October 2020

DLT Developer focused on R&D effort developing a blockchain solution for Oil and Gas Pipeline Asset Management

- Developed prototype DLT applications on top of Corda, Hyperledger Sawtooth and Quorum
- Implemented a test network to simulate a large scale distributed computing network on one system using Docker
- Explored how blockchain and ledger technology could be used to solve logistic issues within the O&G supply chain
- Experimented with multiple consensus algorithms to ensure optimal block building and transaction validation on an enterprise chain
- Parsed through complex and incomplete documentation and provided communication and documentation on the project to stakeholders with varied disciplinary backgrounds

Xyntax Group Inc.

February - May 2018

Lead Mobile Developer on C# Xamarin apps for Android and iOS

- Designed REST API backend for Xamarin based mobile applications, as well as technical specifications for the authentication system
- Responsible for selecting technology stack for cross platform development
- Developed mobile software for connecting to remote ERP system, including unit tests following the MVVM design pattern
- Implemented Offline Mode, allowing users to operate the app without a network connection for use in remote locations

City of Calgary

May - August 2017

Internship with the Cloud and Open Source team within the City of Calgary

- Helped write specifications for OSS analysis and deployment
- Assisted in the design of a large scale IOT infrastructure
- Developed, tested and deployed IOT applications on CloudFoundry
- Assessed and evaluated cloud and open source procurements for use within the City
- Researched and tested private blockchains for corporate use based on Ethereum and Hyperledger
- Developed techniques and processes for analyzing and approving Open Source Software for corporate use

MRO Electronic Supply

October 2016 - May 2017

Part-time job working with a large enterprise codebase using Javascript, JQuery and ASP

- Developed online reports to expose database contents in a user-friendly way to sales and shipping teams
- Helped design and plan future development based on requirements specified by end users
- Utilised HTML5, CSS3 and other modern standards to implement new and useful features to existing codebase

Nexedi SA

May - November 2015

Six month internship working with an ERP system using Python and JavaScript

- Developed simple method to deploy and install ERP system loaded with big data framework for working on large information sets using Ansible playbooks
- Created "Developer Terminal" for exploring the HATEOAS API on the ERP install to facilitate learning it quicker and to enable developers to build webapps off the API responses
- Worked with and built extensions to the existing ERP
- Daily exposure and usage of ERP, to manage and work on projects, using web-based text editors and other development tools

Technical Skills

- Very strong knowledge of Python, Java, Rust and C/C++
- Android and iOS application development
- Experience in a *nix environment, Windows and Mac OS X
- Ethereum smart contract development with Solidity
- Linux kernel development
- Proficient with version control software, including Git and SVN
- Web development with JavaScript, jQuery, Rails, Nodejs, Flask and Django
- Embedded systems development (Nintendo console: Wii, 3DS and Switch)
- NGinx and Microsoft IIS Web Server administration
- Frontend UI Design with XAML, Vue and Qt
- C# application development with WPF and Xamarin, .NET Core
- Multiple open sourced Rust crates published

Projects

- **TurtleCoin Tipbot**
 - Open source Discord bot written in Python providing chat room users the ability to instantly send TurtleCoin for no cost using the TurtleCoin network's json_rpc interface.
- **Onigiri**
 - Backend forum software solution providing a REST API, moderation and filtering tools. The software covers the whole backend stack, from individual requests to database operations and api calls, powered by a postgresql database using Diesel ORM and Rocket.
- **Rustofi**
 - Rust library for creating makeshift interfaces using Rofi, a linux menu-building application. Through Rustofi 3rd party developers have created complex applications on top of a simple command line tool.
- **Isotope**
 - FOSS C++ GUI library originally designed for Homebrew on the Nintendo Switch, Isotope now supports Linux and Windows as well. Isotope allows the development of graphical applications with a simple syntax, APIs for event handling, animations and complex layout creations.
- **Reader YC**
 - Fully featured mobile application designed and built in 2 months. The app provides a mobile friendly interface for posting comments, news articles and browsing other submissions. Due to a lack of an official API the application works through parsing html documents and extracting relevant data.