Alexander Chepurnoy *7th February 1984*

kushti@protonmail.ch • *(Skype: sandylabs)* • chepurnoy.org
Sestroretsk • Russia

Summary

A summary

I am an experienced and passionated engineer and researcher. I have built many products while enjoying design, development and management processes. I tried many programming languages using current favourite one, Scala, since 2011. I love functional programming, programming languages theory and CS knowledge in general.

Previously I worked on data harvesting and analysis tools. Now I am living in the blockchain world and willing to continue to be here for coming years. Also I love to have results of my work as open as possible to wider public.

Experience

IOHK Research

Project Scorex Director/Researcher *Feb 2015 – now*
Developing Scorex and doing a research on blockchains.

Smart Contract

CoFounder/Backend Developer *Oct 2014 – Dec 2015*
SmartContract is building escrow schemes automatically executed based on public datafeeds. Contracts and their updates are being written into Nxt blockchain in clear-text or hashed form. Previously the team built Secure Assets Exchange, web layer on top of decentralized Nxt Assets Exchange with some additional functionality. I designed and developen backend with Scala, Akka, Spray for both products, releasing NxtScala open-source micro-framework on the way.

Nxt cryptocurrency

Core Developer *Apr 2014 – Apr 2015*
Nxt is a cryptocurrency built from scratch, delivering decentralized economy platform. I developed first integration tests, alias transfer, voting system, 2-phased transactions(multisig for Nxt). Also I made some amount of documentation and specifications, key users support.

Consensus Research *Nov 2014 – Feb 2015*
Consensus Research is informal research micro-group made research on Nxt-like Proof-of-Stake algorithm properties by gathering statistics from simulations made with Haskell and Coq. All known attacks were modelled along with papers published online.

NovaShelf

Freelance Software Engineer *Sep 2013 – Apr 2014*
Stealth mode startup developed a new approach to clusterize documents based on Kohonen Self-Organized Maps. I built a distributed and decentralized system for crawling/processing/semantic clusterization of documents using Scala, Akka, Riak, OpenNLP, Lucene.

Domain Developers Fund

Freelance Software Engineer *Jun 2013 – Dec 2013*
Domain Developers Fund is the first public open-ended alternative investment fund exclusively invested in Internet domain names. It built a number of data collection and analysis tools using Scala, Java, Akka, MongoDB, Apache HttpClient, HtmlUnit, PlayFramework.

HedgeWallet

Freelance Software Engineer *Mar 2013 – Nov 2013*
Stealth mode startup to hold bitcoins and fiat currencies with auto hedging. I built user web application backend using Groovy, Grails, ProstgreSQL

RankRust

Software Engineer, Tech Lead *Feb 2011 – Feb 2013*
Private company in Czech Republic made SEO tools and SEO-related data harvesting. I built a crawling system using Java, Nutch, Solr, PostgreSQL, RabbitMQ

DelightCash

Tech Lead, CTO *May 2009 – Feb 2011*
Adult affiliate program. I managed all the technical processes around it.

Exigen Services

Software Engineer *Jun 2006 – Nov 2007*

Those days Exigen Services was the biggest software development outsourcing company in Eastern Europe and CIS countries. The main project I worked on is professional all-in-one database security and auditing solution for Oracle, Sybase, DB2, MySQL and Microsoft SQL Server used by 3M, IBM, JP Morgan Chase, Hewlett- Packard, Shell, Sony and many others. Java, Struts, SQL code specific to most popular relational databases(MySQL, Oracle, MS SQL Server, Sybase, IBM DB2).

Please refer my GitHub account for contributions to open source made by me(Scala mostly). Also please refer to my ODesk profile for more jobs done along with recommendations.

Education

Information Technologies, Mechanics and Optics (ITMO) University   Saint-Petersburg, Russia

Diploma of Specialist in Computer Systems *2001 – 2007*

CS education providing both hardware and software knowledge with focus on embedded software development. A thesis was supervised by professor Ojiganov and named like "An Automated System for Recursive Code Scales Calculation".

I also have unfinished PHD with few papers published in peer-reviewed journals(in Russian only to the moment) in the area of reactive software modelling with finite state machines.

Skills

Technical specialties: Languages: Scala, Java, Groovy. In past I used C, C++, PHP to earn money. Playing with Haskell, Coq, OCaml, Idris. Many other languages were used (from Pascal to NuSMV) but now forgotten. Databases: PostgreSQL, Riak, MongoDB, Hazelcast, FoundationDB. Frameworks: Akka, Spray, Slick, MapDb. Miscellanous: git, LaTEX, Markdown.

Natural languages: Russian *(mother tongue)*, English *(full professional proficiency)*