Val Baturin

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EDUCATION

- **National Research University Higher School of Economics**   Moscow, Russia
  Bachelor of Science in Computer Science   *2015 – 2020*

EXPERIENCE

- **Hong Kong University of Science and Technology [C, C++]**   January 2019 - August 2019
  Research Assistant
  - **Job Description**:
    Created Tasm. Tasm is a C++ framework for creating interpreters
    for low-level blockchain specific languages (eg Etherium VM instructions, Bitcoin Script).
    Made a debugger for Tasm-based interpreters. It's written in C using ncurses library.
    Designed RPC API in proto3 language.
    Implemented gRPC client and server in C++.

- **Serokell [Haskell]**   July 2018 - December 2018
  Software Engineer
  - **Job Description**:
    Implemented unified configuration for the database management system.
    Moved resource allocation to the componentm sub-routines.
    Added fractional representation for a datatype based on fixed-precision arithmetic.

- **Arenadata [Java, Python]**   September 2017 - June 2018
  Software Engineer
  - **Job Description**:
    Developed REST API back end in Java using Spark web framework.
    Integrated Hadoop services such as Hue, Hive, Mahout into Apache Ambari.

- **Arenadata [Python]**   Summer 2017
  Software Engineering Intern
  - **Dive in**: Introduction to Hadoop Ecosystem and Open Source Community rules.
    Overview of the main product Arenadata Hadoop which is ODPI compliant Hadoop Distribution.
  - **Achievements**: It took just 8 days from zero to accepted pull request.
    Public speech was given to people from 8 different countries about company's product.

PROJECTS

- **elixir-numpy [C, Elixir]**   March 2018
  Elixir library   https://github.com/ValBaturin/elixir-numpy
  - **Description**: elixir-numpy is a library for the Elixir programming language, adding support for large arrays and
    matrices of double-precision floating-point numbers, along with a collection of mathematical functions to operate on
    these arrays and matrices. Written in C.

COMPETITIONS

- **2015 - Azure Machine Learning Hackathon Winner - Microsoft**:
  This event was hold on November 2015 by Microsoft with 150+ participants.
  Our team was one of the three winners.
  Emarsys company's case which is SMS binary classification was solved successfully with the highest result(AUC score).
  https://cs.hse.ru/en/news/167445005.html

PROGRAMMING SKILLS

- **Languages**:
  C, Haskell, Elixir, C++, Python
- **Tools**:
  neovim, zsh, git,
  Unix-like operating systems