DMITRY CHERVOV

Strong knowledge of Computer Science fundamentals: efficient algorithms and data structures, their time and space

Senior Software Engineer with focus on iOS/Android apps and big data

TECHNICAL SKILLS

 complexity. Some experience with image Mobile apps: business app and game dev Server side: experience implementing proserver and cluster configuration Databases: SQL and NoSQL, highly scalab Was a winner of programming contests and 	elopment for iOS and Android ojects with scalable architecture that h le HBase-like databases	nandle petabytes of distributed data; *nix
EMPLOYMENT		
Software Developer,	Google	Feb 2017 - present
Senior Software Engineer		
 Google Chat for Android, iOS and Web 		
Previously worked on Currents for Androi	d and Gmail for Web, iOS and Android	
Backend Software Developer	Ahrefs	Jun 2015 - Feb 2017 (part-time)
Implemented large-scale web search function	tionality on top of an existing web cra	wler and 10+ PBytes of live data in the
database		
 Implemented a scalable web analytics sys Samza, Apache Thrift) 	tem (Javascript, OCaml, Java, Aerospik	ke, Hadoop, Zookeeper, Apache Kafka, Apache

Management skills: about 7 years of experience managing developers and QA

- Investigated possible applications of neural networks for the existing projects (TensorFlow and general theory / mathematics for neural networks)
- Configured and maintained clusters of servers (Puppet, *nix)
- Worked on a distributed data mining system (Selenium, PHP, OCaml, MySQL, Logstash, ElasticSearch, Kibana)
- Implemented challenging multithreaded optimizations for the core of the distributed database (C++14, OCaml)

Senior Software Developer,

Sphere Consulting Inc

Head of Mobile dev.department

- Led the development of more than 12 various iOS and Android projects: financial, medical, sports, social networks, restaurant and beauty salon industry, etc. Technologies used: SQLite, push notifications, CorePlot, OCMock, CocoaPods, Ruby on Rails, PHP, Paypal SDK, Amazon S3, Amazon EC2, MySQL, PostgreSQL, PostGIS, RabbitMQ, Redis, Facebook Graph API, FBML, jQuery.
- Estimated projects, interviewed developer candidates
- Designed scalable and maintainable architecture and API

Notable projects include CashNetUSA:

https://itunes.apple.com/us/app/cashnetusa/id645682433?mt=8

https://play.google.com/store/apps/details?id=com.enova.cashnet&hl=en

- · Increased the development velocity about twice and reduced the amount of bugs by designing and writing custom frameworks tailored specifically for the project, to handle network connections, models and UI objects
- Designed the architecture; led the development of iOS and Android apps; wrote automated tests

C++ Developer /

Senior C++ Developer

Settlers for iPhone: https://www.youtube.com/watch?v=6XsLoy_XwgY

- Wild West Guns for iPhone: http://www.youtube.com/watch?v=7B4cxWC8e6I
- Programmed UI, graphics, game logic, AI, sound on both projects (C++, Objective C, Lua, OpenGL ES, OpenAL, iPhone SDK, Instruments, Adobe Flash, ActionScript)

Gameloft

- Made critically important performance and memory usage optimizations (C++, ARM assembler)
- Wrote various tools and scripts to process game resources (Microsoft Visual C++, Python, XML, Windows and Unix shell scripts); wrote a map editor (C++/CLI)
- Invented a way to automatically convert animation resources and wrote corresponding tools, which were critical for projects feasibility (Microsoft Visual C++, Photoshop scripting with ActionScript)

2005 - 2008

2008 - 2010

2010 - Oct 2016 (full-time)

- PHP/MySQL developer: worked on an automated data mining tool (PHP, MySQL, a lot of regular expressions) and a backend for an online store
- ASP.NET / MS SQL developer: programmed UI, logic and database for a directory of educational institutions and employee attestation data

Personal projects

- Wrote several plugins for Miranda Instant Messenger (C++): <u>http://dmitry.ch/projects</u>. Made code contributions to Miranda IM core and its base plugins.
- A Pocket PC driver for an infrared keyboard, and an application that converts formulas from TeX format to graphical representation and shows them in a tooltip in real-time during typing (written in C++ for Windows CE platform).
- Wrote a tool for batch conversion of formulas in Microsoft Word documents from TeX format to regular Word formula objects (Microsoft Visual C++, COM, Microsoft Word API) this tool along with the keyboard driver were used by me in university to write electronic lecture notes on a pocket PC, instead of writing on paper.
- Wrote scripts for Google Spreadsheets to automate handling of information about Canadian immigrants: <u>http://tinyurl.com/FSW14-Spreadsheet</u>. Programmed several innovative charts to better visualize the information. Made non-trivial automated estimates on when each immigrant application will be processed by the immigration centre. Wrote a script to detect duplicates and similar entries. Made optimizations to the spreadsheet so that it loads and updates its data orders of magnitude faster.
- Prototype of a game for iPhone similar to Supaplex (C++, Objective C, OpenGL ES, iPhone SDK).
- Prototype of a live wallpaper app for Android devices (OpenGL ES, JNI, Java, C++).
- Software part of an iris recognition system (my master's work at university), C++ and MySQL.
- An application that maintains information about all music located on a hard drive and allows generating an HTML report with names of artists, albums and songs (C++, MFC, MySQL).
- MIDI file player for MS-DOS (written in 2002 on C++ and x86 assembler). At that time I didn't have any possibility to get MIDI documentation from anywhere, so I reverse-engineered a MIDI driver from an MS-DOS game and also completely reverse-engineered MIDI file format from existing MIDI files.
- 3D labyrinth game for MS-DOS. It used techniques and programming tricks similar to old Wolfenstein 3D game. Written on Pascal + x86 assembler in 2002.

EDUCATION Ukraine

Kharkiv National University of Radioelectronics

2003 - 2008

- Bachelors in Applied Mathematics with Honours
- Masters in Information Science with Honours

1995 - Present