

Curriculum Vitae

PERSONAL DATA

Name: Andrey Jordanov Hristov
Date of birth: February 19th, 1980, Sofia, Bulgaria
Citizenship: Bulgarian, German
Resident in: Bulgaria
E-mail: andrey at hristov.com

PROFESSIONAL EXPERIENCE

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| 02.2018 - present | DNH Soft OOD, CTO Responsibilities: Driving innovation and technology usage for customers' software development projects. Leading Machine Learning initiatives. Technologies involved: PHP, MySQL, Python, C/C++, Tensorflow, Nvidia AGX Xavier / L4T, |
| 05.2016 – 02.2018 | Begabo EOOD, founder Remote software development, project management and consulting services. |
| 06.2010 – 04.2016 | Oracle Deutschland B.V. & Co. KG, Principal Software Engineer Responsibilities: <ul style="list-style-type: none">• Design and implementation of a new client library in C for PHP that uses new protocol• Design and implementation of a MySQL server code which allows MySQL plugins to create sessions and have access to the SQL execution engine. This functionality is the foundation of the cutting-edge MySQL Document Store module.• Design and implementation of an embedded web server for the MySQL server that runs as a plugin. Implementation of SQL, CRUD and Document APIs (following CouchDB's semantics)• see the responsibilities at SUN Microsystems |
| 05.2008 – 05.2010 | SUN Microsystems GmbH, Senior Software Engineer Client Connectivity, Database Group (SUN Micro. acquired MySQL AB) <ul style="list-style-type: none">• MySQL Connector/C++ development and bug fixing• MySQL Server enhancements and bug fixing• mysqlnd client library development and bug fixing• Development and fixing of bugs in the MySQL extensions for PHP |

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| 04.2005 – 04.2008 | MySQL GmbH, Software Engineer Client and Server Technologies. Responsibilities: <ul style="list-style-type: none"> • Client side applications in C/C++ • MySQL Server enhancements and bug fixing • MySQL Event Scheduler module development and bug fixing • Design and implementation of a client library called mysqlnd for the MySQL Server to supersede libmysql as underlying library for PHP extensions (ext/mysql and ext/mysqli) |
| 10.2003 – 02.2005 | Dorten GmbH/100 Days GmbH, Stuttgart, Germany (now Zend Technologies as part of Rogue Wave), Senior Software Developer Responsibilities: <ul style="list-style-type: none"> • Core developer of a custom CMS used for the web projects of the company. • Development on customized solutions based on this CMS. |
| 07.2002 – 09.2003 | WebGate PLC, Sofia, Bulgaria, Software Developer Responsibilities: <ul style="list-style-type: none"> • Developing of server side software for e-Business solutions for global market research • Developing of generic code to be used in various of server side products based on PHP. Implemented both in PHP and PHP extensions in C. |
| 08.2000 – 07.2002 | ICYGEN LLC, Sofia, Bulgaria, Software Developer Responsibilities: Development of web-based (24/7) software applications. |

EDUCATION

Higher Education:

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| 2003 - 2005 | Fachhochschule (University of Applied Sciences) Stuttgart, Germany Thesis : “Design and Implementation of Temporal Triggers For MySQL RBDMS” (crontab like functionality). The thesis became part of MySQL 5.1 under the name “Event Scheduler” Degree: MSc in Software Technologies (GPA 1.3) |
| 2005 – 2007 2002 – 2003 | Technical University Sofia, Bulgaria (both periods) Thesis : Low-level library for accessing RBDMS MySQL from PHP. Degree: MSc in Computer Engineering (GPA 1.5) |
| 1998 - 2002 | Technical University - Sofia, Bulgaria. Degree: BSc in Computer Engineering (GPA 1.75) |

Secondary Education:

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| 1993 - 1998 | National High School of Mathematics and Natural Sciences – Sofia, Bulgaria (GPA 1.2) |
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SKILLS

Languages:

- English : Fluent, both spoken and written. CB TOEFL - 270 points (06/2002)
- German : Fluent, both spoken and written. TestDaF 5/5/4/4 (10/2010)
- Bulgarian : mother tongue

Computer skills:

Programming languages:

- C/C++ (Brainbench Certified) (11 years), Boost
- PHP (Master Cert. From Brainbench and SkillDrill) (20 years experience)

Database systems: MySQL

Operating systems :

- Linux

PROJECTS

- mysqlnd_qc – mysqlnd Query Cache plugin based on TTL technology. Speeds up certain applications with several hundreds of percents, while substantially decreasing the server load. Enables horizontal scaling. <http://www.slideshare.net/nixnutz/buildin-query-caching-for-all-php-mysql-extensionsapis>
- mysqlnd_mc – mysqlnd plugin for query rewrite, that spreads queries across multiple MySQL servers.
- mysqlnd_ms – mysqlnd load balancing plugin. Available at PECL. <http://www.slideshare.net/nixnutz/load-mysql-clusterin-balancing-peclmysqlndms-14>
- mysqlnd plugin API development – Plugin API for the mysqlnd client library. The plugins can override certain aspects of mysqlnd default implementation, hence making possible overloading of certain capabilities without destabilizing the core of the library. <http://www.slideshare.net/nixnutz/the-power-of-mysqlnd-plugins>
- MySQL Connector/C++ - Client library which follows the JDBC standard for connecting to MySQL from C++.
- Taught a MySQL DBA course at the University of Applied Sciences Stuttgart.
- MySQLnd – a library which supersedes libmysql as underlying library for PHP.
- Core PHP developer with commit karma to all over the code repository at git.php.net .

PUBLICATIONS AND PRESENTATIONS

- “Parallel Programming with PHP”: Presentation at the International PHP Conf. Frankfurt/Main 2004
- “Distributed Programming with PHP“: Presentation at the International PHP Conf. Frankfurt/Main 2004
- “Using the Event Scheduler: The Friendly Behind-the-Scenes Helper“: Presentation about MySQL Event Scheduler at MySQL Conference & Expo 2007 by O'Reilly
- “Not so Quiet on the C++ Front” : Presentation about MySQL Connector/C++ at MySQL Conference & Expo 2007 by O'Reilly