# Bagrat Aznauryan

14 apt., 47 bld., 4th block, Davtashen, Yerevan 0054, Armenia
+374 55 568908
bagrat@aznauryan.org
bagrat.aznauryan.org

## Education

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|---|---|---|
| 2015 | **Master of Science** | |
| | Computer and Information Science | |
| | *American University of Armenia* | |
| 2012 | **Bachelor of Science** | |
| | Physics | |
| | *Yerevan State University* | |

**Online Courses**

Machine Learning
*Coursera.org, Stanford University, Andrew Ng*

MongoDB for Developers
*MongoDB University, Andrew Erlichson*

MongoDB for DBAs
*MongoDB University, Dwight Merriman*

## Technical Skills

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|---|---|
| Programming Languages | Python, Java, C/C++ |
| Databases & Data Stores | MySQL, PostgreSQL, MongoDB, Redis |
| Architectures | AVR/AVR32, ARM |
| Hardware Interfaces | SPI, I$^2$C, RS232 |
| Tools, VCSs & IDEs | vim, git, svn, JetBrains IntelliJ IDEA, JetBrains PyCharm, JetBrains CLion |
| OS | GNU/Linux, Mac OS X, Windows |
| Other | GNU Octave |

## Research Interests

– Machine Learning
– Robotics
– Embedded Systems
– Image/Video Processing

## Experience

**Software Engineer** — Current, from Nov 2014
*Aarki CJSC* — Yerevan, Armenia
(branch of *Aarki Inc., Mountain View, CA, USA*)

Design distributed web services and business models, organise infrastructure, including build, test and deployment automation, database design and architecture. Organised and automated data-center security setup scripts which significantly decreased intrusion chances by leaving a single entry point to each data-center. Developed wrappers/decorators for Python to hide repeating and routine implementation tasks, which increased development and debugging time by providing more intuitive and clean code.

**Software Engineer** — Mar 2013 – Nov 2014
*IUNetworks LLC* — Yerevan, Armenia

Designed 3-tier architecture for an e-commerce web service using Java. Developed scripts and organised infrastructure for automated builds, testing and code quality checks, which increased software quality and release processes and decreased development time. Developed base classes for unit testing which increased test coding by initialising and providing all necessary resources. Implemented logic split into service and data access layers.

**Software Engineer** — Jul 2012 – Mar 2013
*be2 LLC* — Yerevan, Armenia
(branch of *be2 S.a.r.l., Luxembourg*)

Developed RESTful Web Services for a matchmaking web application. Improved software development processes by setting up development environments and writing automation scripts, which increased development productivity by about 7% daily. Covered the developed code with unit tests and documentation which increased the readability of the code and decreased build fails. Worked as a part of a Scrum team, and investigated Scrum philosophy and principles.

**Embedded Software Engineer** — Feb 2010 – Jul 2012
*Antel Design LLC* — Yerevan, Armenia
(acquired by *Knightsbridge Group, Vienna, Austria*)

Developed a command line interface via RS232 using C language on AVR32 architecture for a proprietary wireless transceiver. Also, wrote a GUI front-end application, by which increased user experience for configuring and monitoring the device. Additionally, integrated a third party Wi-Fi module on same platform to enable remote wireless configuration of the radio. Wrote technical specifications and documentations for each piece of software.