

Violetta Vylegzhanina

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- EDUCATION ♦ **M.Sc., Vanderbilt University**, Computer Science Dept., USA. *Dec'15*
 GPA: 4.0/4.0.
- ♦ **B.S., Vanderbilt University**, Computer Science Dept., USA. *May'13*
 GPA: 3.7/4.0.
- WORK ♦ **CBS Interactive**, *Software Engineer*. *May'17-Present*
EXPERIENCE · Working with leading edge technologies to deliver scalable and reliable high performance API systems to millions of unique users per month.
 - Implementing custom monitoring services via Amazon CloudWatch.
 - Researching, evaluating, and applying new processes and methods to enrich existing applications.
 - Developing JUnit and Mockito test cases to improve code coverage.
 - Contributing to development of automation solutions that improve build and deployment systems and support continuous deployment/integration.
 - Contributed to the AWS migration of a product by evaluating technologies for efficient and secure storage and retrieval of sensitive information (e.g. Consul, Vault, AWS Parameter Store).
 - Designed and implemented an algorithm that significantly simplified code and reduced the execution time of a web feed parser by 50%.
- ♦ **HITactics, Inc.**, *Software Engineer*. *Sep'15-May'17*
 - Provided high quality software services for indoor positioning and asset tracking solutions that relied on heterogeneous components, such as IoT.
 - Designed and developed a customizable and scalable event-driven system that processed realtime data streams (e.g. Amazon Kinesis) for purposes such as monitoring, analytics, and notifications.
 - Designed and developed a set of secure Portal REST APIs that simplified retrieving and modifying server data.
- ♦ **Change Healthcare**, *IT and Information Security Intern*. *May'15-Aug'15*
 - Saved several months of manual work by developing a tool that instantly documented 4,000 of attack characteristics.
 - Lead the project to prevent the company's websites against online phishing attacks.
 - Performed dynamic assessments of client-facing applications and provided remediation strategies for detected vulnerabilities.
- ♦ **Institute for Software Integrated Systems**, *Research Assistant*. *May'13-May'15*
 - Conducted research on system security and improvement of Java applications' effectiveness through remediation of security flaws.
 - Detected security flaws using machine learning WEKA library¹.
 - Optimized method tracing by intercepting specific method calls at run-time to reduce noisy data.

¹<http://www.cs.waikato.ac.nz/ml/weka/>

	<ul style="list-style-type: none"> · Developed an Android app that deals with often changing unstructured data to ease the shopping experience of WIC (Women, Infants, and Children). <ul style="list-style-type: none"> – Improved integration among mobile health solutions using <i>Open-mHealth</i>² and MongoDB database on Amazon EC2 that stores purchase data. – Developed data analytics solutions for shopping choices data stored in SQLite database to provide healthy tips that are customized for each user.
	<ul style="list-style-type: none"> ◇ Schneider Electric, Engineering Intern. Dec'11-Apr'13 <ul style="list-style-type: none"> · Lead the reconstruction of test environment with automated test units in .NET. · Integrated unit tests with the software development cycle.
PUBLICATIONS	<p>V. Vylegzhanina, D. C. Schmidt, and J. White. Gaps and Future Directions in Mobile Security Research. In <i>Proceedings of the 3rd International Workshop on Mobile Development Lifecycle</i>, MobileDeLi 2015, pages 49–50, New York, NY, USA, 2015. ACM. ISBN 978-1-4503-3906-3. doi: 10.1145/2846661.2846669</p> <p>V. Vylegzhanina, D. C. Schmidt, P. Hull, J. S. Emerson, M. E. Quirk, and S. Mulvaney. Helping Children Eat Well via Mobile Software Technologies. In <i>Proceedings of the 2Nd International Workshop on Mobile Development Lifecycle</i>, MobileDeLi '14, pages 9–16, New York, NY, USA, 2014. ACM. ISBN 978-1-4503-2190-7. doi: 10.1145/2688412.2688413</p> <p>V. Vylegzhanina, D. Brett, and A. Gokhale. Design Considerations in Developing a Mobile Application for Scalable and Decentralized Publish/Subscribe-based Weather Alert System. In <i>Proceedings of the 2013 ACM Workshop on Mobile Development Lifecycle</i>, MobileDeLi '13, pages 21–26, New York, NY, USA, 2013. ACM. ISBN 978-1-4503-2603-2. doi: 10.1145/2542128.2542135</p>
SKILLS	<ul style="list-style-type: none"> ◇ <u>Languages</u>: Java (expert), C# (proficient), C++ (prior experience), JavaScript (prior experience), Python (prior experience). ◇ <u>DevOps</u>: Bamboo, Docker, Gradle, Git (GitHub/GitLab), JIRA, JUnit, Maven, Terraform, Vagrant. ◇ <u>Frameworks</u>: Spring, Retrofit, Hibernate, Vaadin, GWT. ◇ <u>Software</u>: Eclipse, IntelliJ IDEA, Visual Studio, Android Studio, HP WebInspect, Acunetix, HP Fortify on Demand. ◇ <u>Databases</u>: MySQL, PostgreSQL, MongoDB. ◇ <u>Cloud Computing</u>: Amazon Web Services (AWS).
AWARDS	<i>Tau Beta Pi</i> , Vanderbilt University, 2013.
HOBBIES	Interior design, playing piano & violin, embroidery, cooking, and gardening.

²<http://www.openmhealth.org/>