

# 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 EXPERIENCE
- ◇ **Verizon Media (Yahoo!)**, *Sr Software Dev Engineer.* *Oct'18-Present*
    - Part of the Cloud Project Onboarding and Tracking team.
      - Implemented an interface for Athenz Auth service to handle Athenz headless user association for grid user creation.
      - Automated the creation of grid sudoer user groups that saved customers and developers several hours of manual and error-prone work per week.
      - Automated encryption zone auditing for improper data encryption directories.
      - Implemented essential functionality to support a new data grid.
      - Reduced technical debt by removing/rewriting legacy code and increasing test coverage.
  - ◇ **CBS Interactive**, *Software Engineer.* *May'17-Aug'18*
    - Worked with leading edge technologies to deliver scalable and reliable high performance API systems to millions of unique users per month.
      - Implemented custom monitoring services via Amazon CloudWatch.
      - Researched, evaluated, and applied new processes and methods to enrich existing applications.
      - Developed JUnit and Mockito test cases to improve code coverage.
      - Contributed to development of automation solutions that improved build and deployment systems and supported 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 library<sup>1</sup>.
  - Optimized method tracing by intercepting specific method calls at run-time to reduce noisy data.
- Developed an Android app that deals with often changing unstructured data to ease the shopping experience of WIC (Women, Infants, and Children).
  - Improved integration among mobile health solutions using *Open-mHealth*<sup>2</sup> 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.

◇ **Schneider Electric**, *Engineering Intern*. **Dec'11-Apr'13**

- Lead the reconstruction of test environment with automated test units in .NET.
- Integrated unit tests with the software development cycle.

PUBLICATIONS

V. Vylegzhanina, D. C. Schmidt, and J. White. **Gaps and Future Directions in Mobile Security Research**. In *Proceedings of the 3rd International Workshop on Mobile Development Lifecycle*, MobileDeLi 2015, pages 49–50, New York, NY, USA, 2015. ACM. ISBN 978-1-4503-3906-3. doi: [10.1145/2846661.2846669](https://doi.org/10.1145/2846661.2846669)

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 *Proceedings of the 2Nd International Workshop on Mobile Development Lifecycle*, MobileDeLi '14, pages 9–16, New York, NY, USA, 2014. ACM. ISBN 978-1-4503-2190-7. doi: [10.1145/2688412.2688413](https://doi.org/10.1145/2688412.2688413)

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 *Proceedings of the 2013 ACM Workshop on Mobile Development Lifecycle*, MobileDeLi '13, pages 21–26, New York, NY, USA, 2013. ACM. ISBN 978-1-4503-2603-2. doi: [10.1145/2542128.2542135](https://doi.org/10.1145/2542128.2542135)

SKILLS

- ◇ *Languages*: Java (expert), JavaScript (intermediate), C# (prior experience), C++ (prior experience), Python (prior experience).
- ◇ *DevOps*: Artifactory, Bamboo, Docker, Gradle, Git (GitHub/GitLab), Jenkins, JIRA, JUnit, Maven, Terraform, Vagrant.
- ◇ *Frameworks*: Spring, Retrofit, Hibernate, Vaadin, GWT, Ember.
- ◇ *Software*: Eclipse, IntelliJ IDEA, Visual Studio, Android Studio, HP WebInspect, Acunetix, HP Fortify on Demand.
- ◇ *Databases*: MySQL, PostgreSQL, MongoDB.
- ◇ *Cloud Computing*: Amazon Web Services (AWS).

AWARDS

*Tau Beta Pi*, Vanderbilt University, 2013.

HOBBIES

Ballroom dancing, photography, interior design, embroidery, cooking, and gardening.

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

<sup>2</sup><http://www.openmhealth.org/>