

# Arundita Lavania

15301, NE Turing St, Redmond, WA 98052 | (585)-490-7282 | [ditalava03@gmail.com](mailto:ditalava03@gmail.com)  
[arundita.github.io](https://arundita.github.io) | [github.com/Arundita](https://github.com/Arundita) | [linkedin.com/in/arundita-lavania-2a17b1156/](https://linkedin.com/in/arundita-lavania-2a17b1156/) | [skillsire.com/Arundita](https://skillsire.com/Arundita)

## Education

**Graduate: Master of Science - Computer Engineering, New York University**

09/18-05/20

Relevant Courses: Data Structures & Algorithm Design, Machine Learning, Database Systems, Computer Networks, Security Analytics

## Skills

Java, J2EE, BDD/TDD, Selenium WebDriver, TestNG, Git, SVN, Maven, Jenkins, Log4J, Junit, Cucumber, Gherkin, REST, JSON, JIRA, Eclipse, C++/C, SFML, HTML5, CSS3, Javascript, AJAX, jQuery, Php, SQL, Tableau, Splunk, Hadoop, Wireshark, Mininet, MySQL, Oracle, Visual Studio, Xcode, Windows, Unix/Linux

## Projects

### 1. Game Engine (Lumberjack) in C++

05/20-06/20

- Created shapes (tree, branches, player, clouds, bee, axe, log) using **SFML Texture**, and **Sprite**.
- Added a **time bar** to keep track of player's remaining time as well as to respond when the player runs out of time.
- Handled **player's input** (keyboard input, mouse positions and inputs) and added sound effects.
- Added **score** and **message** text using Text and Font class of SFML.
- Handled growing and updating branches, pausing and restarting the game and **collision detection** with screen and objects.

### 2. Venmo: Analyzing cyber-threats to publicly available Venmo transactions

03/20-04/20

- Performed preliminary analysis by examining the payment distribution in different categories using **Tableau**.
- Wrote a **js mongo db query** extract view that contained the relevant fields for analysis.
- Used **mongoexport** to export the fields from **mongodb** to **csv** files.
- Load **csv** files on **pandas dataframe** for the analysis.
- Performed **k-fold cross validation** on the model (k=6). Reported **precision, recall** and **F1** scores.

### 3. Twitter: Detection of Hateful/Offensive speech

01/20-02/20

- Analyzed and preprocessed the dataset using **Apache Spark**.
- Feature Generation**: Created fixed length feature vector word tweet using **Word2Vec**.
- Used **Logistic regression** model to predict the class for the tweets.
- Performed **k-fold cross validation** on the model (k=6). Reported **precision, recall** and **F1** scores.
- Performed **k-means** clustering on tweet features to determine hateful or offensive tweet.

## Professional Experience

*Software Development Engineer in Test (SDET), Mindtree, Bangalore, India*

06/15-06/18

- Participated in **design, discussions, and implementation** of **highly scalable** and **fault-tolerant distributed** components using **functional programming paradigm**, **APIs**, **abstractions**, and **integration patterns** to solve **challenging distributed computing problems**.
- Developed a **behavior-driven Test Automation Framework (BDD)** using **Selenium WebDriver** with **Java** and **Cucumber** for **UI functionality** and **usability testing (Black Box Testing)**.
- Developed a **data-driven Test Automation Framework (TDD)** using **Selenium WebDriver** with **Java & TestNG**.
- Developed **test scripts, test conditions, input test data**, and **expected results** for one or more test plans in a development cycle by analyzing the **Functional Specifications** and **Business Requirements**.
- Reported **potential risks** during all stages of the development lifecycle.
- Managed all communications related to **QA Status daily** during execution.
- Established **quality process** to ensure software quality in a **continuous integration (CI/CD)** environment.
- Worked across the team to ensure the team is **predictable, productive**, and **delivering high quality**.
- Maintained strong internal customer relationships with **Business Partners, internal staff, external vendors**, and **system integrators** daily to ensure quality assurance is performed in alignment with **global initiatives** and requirements across the enterprise **Offshore-Onsite coordination** with the teams.

## Summer Internship

06/19-08/19

Web Developer, **Center for K12 Stem Education, New York**

- Created a project on **Web Design** using **HTML5, CSS3, Javascript, jQuery, AJAX, Php** and **MySQL**.
- Wrote **Javascript** functions to handle **form validation**, multiple **windows targeting** and **dynamic form updating**.
- Created permissions for different users such as site administrators and site users.
- Designed and implemented security programs to protect the websites form **SQL injection**.

## Achievements

- Hats Off Award** for achieving extraordinary results and guiding the offshore team.
- A-Team Award** for showing exemplary team spirit.
- Unstoppable Award** for relentless dedication and attention to detail.