

Arundita Lavania

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

- 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 end-to-end flows to complex banking areas with **Page Object Model** framework.
- Customization of **regression** reports using **Kibana** dashboard & **Jenkins** pipeline jobs to provide **GO/NO GO** decisions.
- Integration of Automation scripts on web browsers(Windows, Mac), mobile browsers(Android, iOS) with **Continuous Integration & Continuous Delivery (CI/CD) Servers** with defined/continuous polling intervals to achieve Automation Build Validation during code commits & freezes.
- Developed a **data-driven Test Automation Framework (TDD)** using **Selenium WebDriver** with **Java & TestNG**.
- Responsible for **Test Suite Development** including **Unit**, **API** and **Integration** testing (**White Box Testing**).
- Responsible for **Test Planning**, **Test Design**, **Test Execution**, **Defect Reporting** and **Tracking**.
- Project planning and work prioritization through agile development using **JIRA**.

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.