Aparna Iyer

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PROFESSIONAL EXPERIENCE

ConnectWise - Software Engineer- II   **Jul 2021 – Present**
Cybersecurity department   *Pune, India*
- Provided detailed risk reports and mitigation strategies to product owners for enhancing system security.
- Monitored application performance to spot irregular activities, ensured patch gets automatically updated at endpoints.
- Worked with the cybersecurity team and performed penetration to identify critical vulnerabilities and mitigate future attacks.
- Acted as a scrum master to streamline the process for the team to achieve goals.

ConnectWise - Software Engineer- I   **Jan 2020 - July 2021**
Business Management team   *Pune, India*
- Worked as a Quality Engineer and wrote automation scripts for API and UI in Karate to automate the testing.
- Improved the automation framework, increased the automation coverage to 99%, and analyzed the regression results in Jenkins.
- Defined the test plan and performed resiliency testing on components such as SQS and Cassandra to make the product robust

Indian Railways, Government of India - Summer Intern   **Mar 2018 - Apr 2018**
Operating Signal department   *Mumbai Central, India*
- Worked in the Computer Networks domain to increase the efficiency of the Train Management System (TMS).
- Analyzed the Mumbai local train's commuter's data and suggested where the frequency of trains was to be increased based on several parameters like the number of tickets printed, the number of existing trains, offices nearby, peak period, etc.

EDUCATION

SIES Graduate School of Technology, Mumbai University   **Aug 2016 – Aug 2020**
Bachelor of Engineering in Computer Engineering – (Grade: 4.0/4.0) CGPA 9.22/10   *Mumbai, India*
K.J. Somaiya College of Science and Commerce   **Aug 2014 - Aug 2016**
Higher Secondary Certificate - Grade 87.69%   *Mumbai, India*
Sri Ma Vidyalaya - *Secondary School Certificate - Grade 95.2%*   **Aug 2014**

ACADEMIC PROJECTS

Instagram automation | *Automation*   **Sep 2021 - Sep 2021**
- Using Python InstaBot library automated sending Direct messages, following/unfollowing, uploading pictures on Instagram.
Garbage Profiling System | *Deep Learning, TensorFlow, Pygal*   **Mar 2020 - May 2020**
- Designed a system to detect plastic waste using the Mask R-CNN algorithm and calculated its percentage.
Teledermatology application | *Deep Learning, Android Studio, TensorFlow, Keras*   **Sept 2019 – Mar 2020**
- Implemented the CNN algorithm coupled with transfer learning to spot benign skin issues with an accuracy of 80% on the test set.
Wireframe creation | *Product Designing (Adobe XD)*   **Sep 2019 - Sep 2019**
- Created Wireframes for M indicator application

SOFTWARE SKILLS

Languages: Java, Python, C, Golang   **Tools:** AWS, Docker   **Framework:** BDD
Databases: SQL, PostgreSQL, Cassandra, Firebase   **Version Control:** Git
Others: Karate, Postman, Selenium, Burp Suite, Cucumber, JMeter, Junit, TestNG, Android Studio, Adobe XD, Rest Assured

AWARDS & RECOGNITION

Third Prize in ByteCamp- **National Level Hackathon** out of 20 selected teams   *SIES GST*, **Feb 2020**
Dr. Govindarajan Scholarship for securing the first rank in Computer Engineering department   *SIES GST,* **Jul 2017**
INSPIRE Scholarship- Awarded Rs 80k per year for three years   *Maharashtra government*, **Jul 2016**
AWS Machine Learning (Foundations) Scholarship   Udacity, **July 2021**

LEADERSHIP ACTIVITIES AND CERTIFICATIONS

- **The marketing team head** for the cultural festival with a footfall of 5000+ people
- **Volunteer** at National Service Scheme to lead reforestation, blood donation drives, vaccination campaigns, etc.
- **Certifications:** MATLAB Onramp, Coursera- Google Go, Financial Markets, Product Design, Udemy- Machine Learning A-Z

PUBLICATION

- A Skin Disease Detection System Using CNN Deep Learning Algorithm (2021), Aparna Iyer, Shraddha Iyer; Soft Computing and Signal Processing. Advances in Intelligent Systems and Computing, vol 1325. Springer, Singapore.
- A Garbage Profiling System Using Mask R-CNN Deep Learning Algorithm (2021), Aparna Iyer, Christina Raymond, IEEE Xplore, International Conference for Advancement in Technology, (ICONAT), Goa, India.