

Anushka Tiwari

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EDUCATION

Master of Science, Computer Science

March 2024

University of California, Riverside, Bourns College of Engineering

(Relevant courses: Design and Analysis of Algorithms, Artificial Intelligence, DBMS, Distributed Systems, Big Data, Advanced OS)

Bachelor of Engineering, Computer Engineering

October 2020

University of Mumbai, Vivekanand Education Society's Institute of Technology

SKILLS

- Programming languages: Python, Java, C
- Databases: Oracle, Microsoft SQL Server, MySQL
- Machine Learning Libraries: PyTorch, Tensorflow, Keras
- Cloud Technologies: AWS, Azure
- Version Control and Build Tools: Git, bitbucket, Jenkins, Maven
- Software Development Lifecycle: Well-versed with Agile methodologies and Scrum framework
- Frameworks, Web Development (Basic): Hibernate, Spring, Spring MVC, Angular, JavaScript, TypeScript

EXPERIENCE

Software Developer in Test Intern – Origence (Formerly CU Direct), Ontario, CA, United States (Fully On-Site role)

June 2023 – Aug 2023

- Developed functional and non-functional test cases to automate testing of the end-to-end flow of the loan application process, primarily focused on the Dealer Portal which is the main product of Origence for car dealerships to secure loans for customers from designated lenders (credit unions).
- This involved testing various features of the product including regression tests, and smoke tests in Dev, QA environments for all positive and negative test cases. Achieved an improvement in testing efficiency by transitioning 85% of the manual test cases to fully automated integration tests, thereby enhancing the overall reliability of the functionality of the existing product. (Used Typescript, C#, Playwright Automation Tool, and Oracle DB)
- Collaborated with cross-functional teams to identify and resolve software issues/bugs, participated in code reviews, and got direct visibility by presenting intern projects to company executives.

Software Engineer in Test - Larsen and Toubro Infotech Pvt. Ltd. (LTI), Mumbai, India

Aug 2020 - July 2022

- Developed, resolved incoming issues, and deployed Appian Computing Solutions (ACSs) which are Business Process Management (BPM) applications developed using the Appian platform. These were used to compute confidential data of CITI Bank which was a client company to LTI. Performed comprehensive unit and integration tests after, to ensure the functionality, usability, and compliance of the application.
- Worked on another project called Transactor that processed data from disparate sources and generated reports to send to regulatory bodies like RBI in India. Identified, fixed, and validated bugs in production code thereby reducing customer ticket queue by 30%.
- Conducted rigorous QA using Selenium for automated testing and Jira for defect tracking contributing to a 3% revenue increase for the Transactor team, securing best project accolades. The project repository was in Java and Transactor Management System was written in Oracle DB.

Machine Learning Intern - Bhabha Atomic Research Center, Mumbai, India

June 2019 - July 2019

- Worked on a project entitled "Hard Example Mining using Deep Learning" that consisted of training a model to identify threats in the X-ray images of cargoes.
- Used Convolutional Neural Networks to build a model and trained it on the sliding window patches of the cargo images.
- The efficiency of the model was increased to 92% by hard example mining and the image patches that were classified as a threat were displayed bordered by a red bounding box. Got acquainted with PyTorch Machine Learning Library.

Software Developer Intern - Nuclear Power Corporation of India Limited, Mumbai, India

June 2018 - July 2018

- Developed a Management Information System model with automated testing capabilities using Selenium, which was later incorporated by the organization with which the employees can seamlessly view attendance and leave records of themselves and their co-employees at a glance.
- Used various technologies like JSP, Java, HTML and CSS, basic JavaScript, and database languages like SQL and NetBeans IDE.

PROJECTS

AIDE: AI and IoT Enabled Home Automation for Disabled and Elderly

August 2019 - April 2020

- Developed a system that aids physically challenged people in their daily tasks and enables their caretakers to keep an eye on their whereabouts and daily activities from the comfort of their own homes. Hence, we aimed to give a sense of autonomy to specially challenged and elderly people.
- Collaborated with a team of 4 members and developed the Machine Learning module using Python and ML libraries like Keras, TensorFlow, PyTorch, NumPy, etc using the concepts of deep learning neural networks.

Student Behavioral Analysis using NLP

March 2020

- Predicted the behavior and mental state of students by giving them a scenario-based questionnaire and taking their answers in the form of text which was analyzed using NLP and machine learning using deep learning.
- A set of keywords that determine the mental state and behavior of the student was detected which was then classified using a supervised machine learning algorithm.

PUBLICATIONS

- AIDE- AI and IoT Enabled Home Automation for Disabled and Elderly (IEMIS 2020, Springer) [See Publication](#)
- IoT-enabled Gesture-Controlled Home Automation for Disabled and Elderly (IEEE) [See Publication](#)
- Gesture Controlled Home Automation System Using Internet of Things (IJARCCE) [See Publication](#)
- DNA as a storage medium - Presented a paper about the growing need for storage and how this problem can be battled out if we store data in artificially synthesized DNAs allowing a huge amount of data to be stored on something as small as a pinhead.