

GARIMA LOHANI

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EDUCATION

BOSTON UNIVERSITY, Boston, MA
Master of Science in Bioinformatics

Jan 2021

BANASTHALI UNIVERSITY, Jaipur, India
Bachelor of Technology in Biotechnology

Jun 2015

PROFESSIONAL EXPERIENCE

THINK SURGICAL, Fremont, CA
Software Test Engineer

Oct 2021 - Present

- Created software verification documents per FDA regulation
- Installed software on robotics platform and verified software protocols on released software build
- Executed test protocols, test cases, test scripts, and test scenarios and reported/followed up on defects
- Designed and prepared test data for dry runs and formal execution
- Validated docker image for test environment using Squish automation tool with Python
- Analyzed product design and requirements reviews and evaluated requirements for testability
- Co-ordinated with development engineers to help drive testability into product and conduct code reviews
- Led team in enhancing test engineering best practices, tools, infrastructures, and processes
- Mentored and supported junior engineers and team members

DALTON BIOANALYTICS, Los Angeles, CA
Software Engineer

Jun 2021 - Sep 2021

- Performed data analysis for metabolomics, lipidomics, and proteomics in R
- Gathered and combined chemical data such as SMILES, molecular formula, molecular descriptor, concentration, intensity, peak area, and retention time from biological databases(UniProt, HMDB, lipid maps) and in-house machine data (LC-MS)
- Developed and evaluated novel machine learning models such as linear regression model, elastic net, lasso, and random forest to predict standard/calibration curve

BROAD INSTITUTE OF MIT AND HARVARD, Cambridge, MA
Software Engineer Intern

Jun 2020 - Dec 2020

- Coded and improved software development and data visualization relating to analysis of functional annotation of transcriptome
- Updated source code of Trinotate tool with RNA sequencing data for yeast and mouse
- Designed and create dashboards and data reports to support data analysis in Trinotate by gathering requirements from scientists
- Tested code and debugged problems reported by scientists and researchers on Github

ACCENTURE, Pune, India
Application Test Analyst
Application Test Associate

Mar 2016 - Jun 2018

- Executed test plans, test scripts and communicated defects to enable software development team to improve products across projects
- Prepared detailed test plans and test cases, specifying testing overview and testing approach depending on business and technical requirements
- Interacted with clients for requirements clarification/validations
- Performed smoke test in the Test/Release Environment
- Built an automation framework
- Utilized Selenium (data-driven, XPath locator) WebDriver to test web application
- Identified regression scripts and worked on automation feasibility
- Delegated tasks to offshore team members and reported deliverables and status updates to QA manager and client manager

FOREST RESEARCH INSTITUTE, Dehradun, India

Jul 2014 - Dec 2014

Research Intern

- Studied impact of bacteria and fungus on growth of bamboo
- Tested bacterial isolates for phosphate solubilization, a growth-promoting characteristic
- Conducted a glasshouse experiment with help of research staff to quantify impact of 12 different treatments (various compositions of bacteria, fungus and chemical fertilizers) on bamboo growth
- Identified best composition of microorganisms for use as a Biofertilizer for bamboo by applying ANOVA technique on field data collected from glasshouse experiment conducted over four months

ACTIVITIES & COMMUNITY SERVICE

FAMILY GIVING TREE, Milpitas, CA

Volunteer

Sep 2022 - Dec 2022

- Aided Employee Giving Programme such as Back to School Drive, and Holiday Giving

SINGLE CELL SEQUENCING CORE, Boston, MA

Web Developer

May 2020

- Led team to develop and design database to manage administrative and sequencing data
- Built database website making UI/UX user-friendly and interactive using HTML, CSS, Javascript, and Python CGI

ACCENTURE, Pune, India

Volunteer

Sep 2022 - Dec 2022

- Analyzed photos from camera traps for Amazoncam Tambopata project of San Diego Zoo Institute for Conservation Research and helped researchers to track species diversity of wildlife in Amazon Rainforest

HONORS & AWARDS

- Accenture Team ACE award for outstanding delivery in FY18 Q2
- Graduate Merit Scholarship by Boston University

TECHNICAL SKILLS

Web Development : HTML, CSS, JavaScript

Software Testing Manual : Software Testing Life Cycle (STLC), Agile Methodologies, Bug Detection, JIRA, JAMA

Software Testing Automation : Python, Java, Shell scripting, Github, Stash, Selenium Web driver, Junit/TestNG, Squish

Data and Statistics : R, and SQL

Machine Learning : Simple Linear Regression, LASSO, Elastic net, RIDGE Regression