

# GARIMA LOHANI

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## EDUCATION

**BOSTON UNIVERSITY**, Boston, United States  
Department of Bioinformatics

Sept 2020

**BANASTHALI UNIVERSITY**, Jaipur, India  
Department of Biosciences and Biotechnology  
Percentage: 69.04

Jun 2015

## WORK EXPERIENCE

**BOSTON UNIVERSITY**, Department of Medicine, Boston

Feb 2020 - Present

- Developed a database for Single cell sequencing core.
- Implemented the schema using SQL, Python, and the MySQL database management systems
- Created a Web interface for the database using HTML, JavaScript, and CGI.

**ACCENTURE**, Pune, India

Mar 2016 - Jun 2018

Application Development Analyst

- Migrated the workflow of business processes from IBM ESB, a proprietary software, to Mule ESB, an open source integration technology platform, for a financial services client based out of Netherlands to enable the client to generate services that can be integrated with the wider enterprise landscape.
- Identified, analyzed, and developed application programming interfaces (API) using Mule ESB Anypoint platform including Mule Runtime, Connectors, Design Center, and API management.
- Tested and reviewed Mulesoft interfaces by using SoapUI and MUnit, which are technologies used for testing an API before implementation.
- Deployed Mulesoft interfaces across multiple environments using Bamboo.
- Corporate Social Responsibility
- Contributed to the conservation of wildlife in Amazon rainforest by analyzing photos from camera traps for Amazoncam Tambopata project of San Diego Zoo Institute for Conservation Research.
- Identified terrestrial and arboreal animals by comparing 551 images from camera traps along the Tambopata River in the Peru with existing images in database of the institute to speed up process of identification of animals.

Application Development Associate

- Developed test plan, test scripts, and reported defect to enable software development team to improve the products across various projects.
- Applied business and functional knowledge including testing standards, guidelines, and testing methodology to meet the client's software quality requirement in Finland.
- Performed testing for various functionalities of the Pension Claim Implementation Application of a major financial services client using SoapUI, and Squirrel SQL.

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**FOREST RESEARCH INSTITUTE**, Dehradun, India

Jul 2014-Dec 2014

Research Intern

- Studied the impact of bacteria and fungus on the growth of bamboo.
- Tested bacterial isolates for phosphate solubilization, a growth promoting characteristic.

- Conducted a glasshouse experiment with help of research staff to quantify the impact of 12 different treatments (various composition of bacteria, fungus and chemical fertilizers) on growth of bamboo.
- Identified the best composition of microorganisms for use as a bio fertilizer for bamboo by applying ANOVA technique on the field data collected from a glasshouse experiment conducted over a period of four month.

## TECHNICAL SKILLS

**Bioinformatics** : Single-cell sequencing data analysis (Seurat tool), RNA seq data analysis (DESeq2 and Tophat)

**Computer Science** : Python, Java, XML, HTML, CSS, JavaScript, Mule ESB, SoapUI, Shell scripting, and SDLC (software development life cycle)

**Data and Statistics** : R, SQL, and GenStat 5