# GARIMA LOHANI

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## EDUCATION

**BOSTON UNIVERSITY**, Boston, MA — Jan 2021
Master of Science in Bioinformatics

**BANASTHALI UNIVERSITY,** Jaipur, India — Jun 2015
Bachelor of Technology in Biotechnology

## WORK EXPERIENCE

**BROAD INSTITUTE OF MIT AND HARVARD**, Cambridge, MA — Jun 2020 - Present
Software Engineer Intern

- Performed bioinformatics programming focusing on software development and enhancements relating to analysis of functional annotation of the transcriptome
- Updated source code of Trinotate tool with RNA sequencing data for yeast and mouse
- Designed and developed 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

**BOSTON UNIVERSITY SCHOOL OF MEDICINE**, Boston, MA — Feb 2020 - May 2020
Data Analyst Intern

- Transformed RNA sequencing raw data from mouse brain into final analysis products such as PCA, Complex Heatmap and Differentially Expressed Genes by developing scripts in R and Linux environment
- Designed visualizations and written reports to provide interpretation and context to result of analysis

**ACCENTURE**, Pune, India — Mar 2016 - Jun 2018
Application Development Analyst
Application Development Associate

- Migrated the workflow of business processes from IBM ESB, a proprietary software, to Mule ESB, an open-source integration technology platform, to enable the client to generate services that can be integrated with the wider enterprise landscape
- Tested and reviewed Mulesoft interfaces by using SoapUI and MUnit, which are technologies used for testing an API before implementation
- Developed test plan, test scripts, and reported defects to enable the software development team to improve the products across projects
- Performed testing for functionalities of the Pension Claim Implementation Application of a client using SoapUI, and SQL

**FOREST RESEARCH INSTITUTE**, Dehradun, India — Jul 2014 - Dec 2014
Undergraduate Research Intern

- Conducted a glasshouse experiment with help of research staff to study and quantify the impact of 12 different treatments (compositions of bacteria, fungus and chemical fertilizers) on growth of bamboo
- Identified the best composition of microorganisms for bamboo growth by analyzing glasshouse experiment data

## TECHNICAL SKILLS

**Bioinformatics** : Next Generation Sequencing (NGS) data analysis**,** and Bioinformatics pipeline
**Computer Science** : Python, HTML, CSS, JavaScript, Mule ESB, Shell scripting, and Software Development Life Cycle
**Data and Statistics** : R, and SQL