

# Anurag Raj

Bioinformatics Programmer Trainee  
AgriGenome Labs  
Cochin, Kerela  
India

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## → Objective

To make the best use of my technical expertise in logic development & data analysis in a research based career, hence to acquire and apply advanced knowledge in the field of Bioinformatics.

## → Research Interest

- Next Generation sequencing
- Tool development
- Molecular modeling and drug discovery

## → Education

<b>Pondicherry University</b> M.Sc. Bioinformatics, 2015. CGPA: 9.42/10	<b>University of Delhi</b> B.Sc. Life Sciences, 2013. Percentage: 74.28%
<b>Maharaja College</b> Bihar Secondary Examination Board 12 <sup>th</sup> , 2008. Percentage: 60.89%	<b>DAV Public School</b> Central Board of Secondary Education 10 <sup>th</sup> , 2006. Percentage: 70.60%

## → Experience

- **Bioinformatics Programmer Trainee** (April 2016 - Present) [AgriGenome Labs Pvt. Ltd]  
Next Generation Sequencing data assembly and analysis; Programming for data analysis in the field of *de novo* genome sequencing.
- **Bioinformatics Industrial Training Programme (BIITP) Trainee** (October 2015 – March 2016) [SciGenom Labs Pvt. Ltd]  
Worked on a project to develop a partial *de novo* genome assembler to enhance the current quality of *de novo* genome assembly.

## → Skills

- **Programming languages:** C, JAVA, Perl, R
- **De novo genome assembly:** Alignment tools like bowtie, bwa and assemblers tools like SOAP, Velvet, SPAdes, ABySS, MaSuRCA, CISA
- **De novo genome annotation:** tools like Glimmer, Blastx, Diamond
- Other sequencing tools like cutadapt, bfc, jellyfish, usearch, cdhit, Sickle, Kmergenie, fastQC, fastUniq, Emboss, Quast and samtools
- **Database Management:** MySql, CGI and HTML
- **Bioinformatics tools:** Schrodinger, PyMol, GROMACS, Modeller, AutoDock, WinGX, Marvin Sketch
- **Operating system platforms:** Windows, Ubuntu, Biolinux and bash shell commands

## → Research experience

- M.Sc. Project under guidance of Dr. Dinakara Rao Ampasala, Associate Professor, Centre for Bioinformatics, Pondicherry University.  
**Insights into the Structure and Function of Chitin synthase from *Brugia malayi*: An *in silico* approach**  
This project involves the knowledge of protein structure modeling (Modeller, Robetta, I-Tasser), molecular dynamics simulation (GROMACS), virtual screening of molecules/molecular docking (Schrodinger, Autodock).

## → Seminar and Workshop

- Bioinformatics workshop organized by University of Delhi (June 2013).
- National symposium on innovations & advances in science & technology organized by ISCA and Pondicherry University (February 2014).
- National seminar on Recent Trends in Macromolecular Crystallography organized by Pondicherry University (March 2014).
- National seminar on Role of biotechnology by Department of Biotechnology, Pondicherry university (March 2015).

## → Fellowship/Achievements

- **DST-INSPIRE** fellowship, 2016 for PhD research.
- First Rank in Post-graduation in Bioinformatics in Pondicherry University.
- First Rank in Under-graduation in Dyal Singh College (University of Delhi).

## → Personal Information

- Name Anurag Raj
- Father's name Sri Devendra Kumar Sinha
- Date of Birth 29<sup>th</sup> Oct 1991
- Nationality Indian
- Gender Male
- Languages known Hindi and English
- Hobbies Reading story books, listening music, solving puzzles
- Permanent Address Club Road, Arrah, Bhojpur, Bihar - 802301

## → Declaration

I, hereby declare that all my information furnished above is true and correct to the best of my knowledge. I hope you will consider me and give the opportunity.

Date: 15/05/2016

Place: Cochin, India



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