

SIRISHA THIPPABHOTLA

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SUMMARY

- Three+ years of software support and development experience with a Master's degree in Computer Science
- Proficient in command-line Linux, Shell scripting, C/C++, Python, Perl, R
- Worked with public genome databases: NCBI, UCSC Genome Browser, Ensembl
- Strong analytical, mathematical and statistical skills
- Experienced working with multiple data formats like FASTA/FASTQ, VCF, MAF, BAM/SAM, GTF/GFF3
- Well-versed with several bioinformatics tools like BWA, Samtools, Bedtools, Hisat, Cufflinks, WGSIM, BLAST
- Familiar with genomic assembly tools like SPAdes, SOAPdenovo, SGA
- Comfortable working with Unix/Linux environments
- Strong public speaking, teaching and facilitating skills for diverse student and professional audience

EDUCATION

University of Kansas (Lawrence, KS) – PhD in Computer Science (Bioinformatics) [July 2017- Present]
University of Kansas (Lawrence, KS) – MS in Computer Science (GPA: 3.9) [August 2015-May 2017]

EXPERIENCE

- **Graduate Research Assistant- University of Kansas:** Currently employed as a Research Assistant in Bioinformatics. The goal of my research is to develop efficient computational tools for improving metagenomic sequencing data analysis. [January 2018-Present]
- **Graduate Teaching Assistant-University of Kansas:** Assisted in teaching an undergraduate course called Discrete Structures. Lead a group of 25-30 students and guide them in understanding the concepts of the course thoroughly. [August 2016- December 2018]
- **Summer Internship- Bioinformatics Analyst at Washington University in St.Louis:** Analyzed lung cancer patient data and successfully identified significant mutations in cancer causing genes. Performed statistical analysis and visualizations using tools like R, Circos. [July 2016-August 2016]
- **Assistant Systems Engineer-Tata Consultancy Services (Hyderabad, India):** Provided support activities to a supply chain management system for the client Xerox. Worked on Unix based operating systems and Oracle database systems to provide ongoing support. Took active part in meetings and discussions with clients to cater to their business requirements. [Oct 2014-July 2015]
- **Summer Intern- CYIENT Ltd (Hyderabad, India):** Developed Android based applications using GIS on a Java platform. Deployed the applications onto Android devices, performed testing and observed positive results. [May 2013-August 2013]

PUBLICATIONS

- Liu, B., **Thippabhotla, S.**, Zhang, J., and Zhong, C., (2021) DRAGoM: Classification and Quantification of Noncoding RNA in Metagenomic Data, *Frontiers in Genetics*, <https://doi.org/10.3389/fgene.2021.669495> (Second author)
- **Thippabhotla, S.**, Wei, L., Zhu, Q., Zhong, C., and He, M. (2019) 3D cell culture stimulates the secretion of in vivo like exosomes, *Scientific Reports*, 9, 13012