

ABHISRI RAMESH

DATA ENGINEERING | BIOINFORMATICS | ENTREPRENEURSHIP

Education

St. Bonaventure University (GPA: 4.0)

M.B.A Candidate

B.S. Bioinformatics, 2018-2021

Minor, Mathematics

Rank 1/473 - Undergraduate Gold Medalist

Georgia Institute of Technology, 2016 (GPA: 4.0)

Dual Enrollment (Stamps President's Scholarship Finalist)

Milton High School, 2018 (GPA 4.0)

Salutatorian

National Merit Finalist; SAT: 1570; Old SAT: 2330; ACT: 35

Skills

ELISA	Machine Learning/AI (Python and Matlab)
Western blotting	Google API's & OAuth
NextGen Sequencing	Gene-knockdown (miRNA)
RT-qPCR	Microscopy & Histology
PCR	Tissue preparation
Chromatography	RNAseq Analysis
Distillation	*All other laboratory techniques from Biology,
Electrophoresis	Cell Biology, General
Immunoassays	Chemistry, Organic
Crystallization	Chemistry, Biochemistry, and
Power Automate	Genomics Lab
Java & Javascript	
R, Statistical Analysis	
Python, Matlab	
Bash/Linux Shell	

Relevant Coursework

- Java/Data Structures
- Computer Science II
- Python, NumPy
- Algorithms
- Discrete Mathematics
- Multivariable Calculus
- Linear Algebra
- Calculus-based Probability
- Probability/Statistics
- Biology Course Instructor
- Organic Chemistry I/II with Lab
- Biochemistry with Lab
- Cell Biology with Lab
- Genetics
- Genomics with Lab
- Biology with Lab
- Chemistry with Lab

Awards

- Georgia Technology Competition - Winner
- Published Georgia Tech course textbook-professor's endorsement
- National Center of Women in Technology Aspiration Award
- InspirASIAN Scholarship Winner
- Coca-Cola Scholars Foundation National Semi-Finalist
- International Student Media Festival "Excellence in Production" Award
- Presidential Service Award Gold
- National Wellesley Book Award Recipient
- Best in Category Georgia Science and Engineering Fair
- Provost Essay Competition Winner
- Level 6 Associate Board of Royal Schools of Music - Distinction
- National Federation of Music Clubs - Superior Rating

Contact



(770) 714 3331



ramesha18@bonaventure.edu



2845 Stone Hall Dr, Marietta, GA 30062

Research Experience

Veritiv Corporation

May 2021 - Present

IT Analytics & Automation Intern

- Streamlined business processes by developing software via Power Automate for Fortune 500 company
- Automated processes saved ~500 labor hours, leading to ~\$10,000 cost reductions for various departments, including customer-service, A/R, and Tax Audit
- Exposure to all elements of Power Automate, including solutions, environments, flows, and deployment
- Spearheaded the establishment of governance principles and center of excellence for the company

University of Buffalo Medicine Neuroscience

Sept 2021 - Present

AI & Deep Learning Intern

- Utilizing Matlab to create and test QSM Reconstruction packages on a computational cluster
- Part of team that is researching using deep learning to demonstrate the magnetic susceptibility of different regions of brain tissue
- Research will be utilized to help diagnose different neurodegenerative disorders, including Parkinson's and Alzheimer's

National Institute of Health @SBU

Dec. 2018 - Sept 2021

Bioinformatics Intern

- Participating in a NIH-funded research project that uses BASH/Linux scripts and R to generate tabular reports on differential gene expression/alternative splicing from Illumina Next Gen RNA Sequencing Reads
 - Part of the computational team that developed differential gene expression/alternative splicing analysis pipeline (utilizes Trimmomatic, STAR, FeatureCounts, limma voom, etc.)
 - research analyzes the molecular and immunological functions of SR-45 in *Arabidopsis Thaliana*
- Utilizing Python to perform advanced statistical analysis on datasets provided by the Department of Health to determine dependencies between various data objects
 - Presented novel findings to county officials, which portrayed county-wide increases in emergency, cardiovascular, and drug-abuse admissions
 - Proposed health intervention programs based on analysis to county officials that are projected to decrease case number by 14% and free 9% of emergency room budgets county-wide

The Rockefeller University

June 2017- July 2018

Computational Biology Intern

- Classified and grouped a subset of RNA genomic data as pseudogenes from a large genomic database using BASH scripts and BLAST
- Annotated features of the transcriptome, including polyA tails, transcription initiation sites, start/stop codons, and intron/exon junctions

Industry Experience

HIFIVE - www.hifivetutoring.com

Sept. 2016 - Present

Co-Founder & CEO of a Digital & F2F Learning Platform for K-12 Students

- Grew company 250% in 1 year, served 1200+ students onsite & online w/ team of 50+ staff
- Offered pro-bono services for low-income students, including those w/ Autism, Aspergers
- Automated scheduling of tutoring appointments and payment collection via Google Scripts
- 30+ site visitors daily; 100% client satisfaction; 5-star reviews on Google, Yelp, NextDoor
- Manage daily ops, client relations, payroll, hiring & on-boarding of tutors, marketing

St. Bonaventure University

Jan. 2019 - Present

Product Owner

- Collaborating with St. Bonaventure Students in Money Management to build an app that utilizes React, Google OAuth, Google Sheets API, and Google Charts to portray details of a stock portfolio in real-time
- Manage and program with a team of six programmers
- Log tickets and acceptance criteria for various app features using Trello
- Learned essential product management skills, studied customer pain points, and created product roadmaps

Publications

Multivariable Calculus Essentials Textbook (published on Apple iBook store)

- Authored and Published a Multivariable Calculus iBook for University-Level calculus students endorsed by Georgia Tech Professor, Dr. Morley.
- Created all 3D mathematical models using AutoCad, TinkerCad, and MS PowerPoint

Informatics Lesson Manuscript (submitted to CourseSource.org for publishing)

- The manuscript is a 7-episode series discussing upper-level Bioinformatics topics including differential gene expression, genomic sequencing, whole-genome analysis, and protein structure