

EDUCATION

Bachelor of Science | University of Maryland (UMD)

[September 2015 - December 2019]

- **Computer Science:** Deep Learning for Healthcare Image Analysis, Applied Machine Learning, Bioinformatic Algorithms, Databases, and Tools; Object-Oriented Programming; Organization of Programming Languages; Introduction to PHP, MySQL, and Apache; Data Structures; Design and Analysis of Algorithms; Computer Vision; Programming Handheld Systems; Ethical Hacking
 - **Languages:** Python, Javascript, R, HTML, CSS, SQL, Java, Swift, Matlab, VBA
 - **Frameworks and Libraries:** Numpy, Pandas, Pytorch, scikit-learn, React
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RESEARCH AND WORK EXPERIENCE

Postbaccalaureate Research Fellowship | NIH

[September 2021 - Present]

- Designed deep learning model pipeline for automated classification of Computed Tomography (CT) medical images

Postbaccalaureate Research Fellowship | NIH

[September 2020 – August 2021]

- Analyzed various machine learning algorithms for classification of Interstitial Lung Disease in Systemic Sclerosis patients using genomic sequencing data and T-Cell Receptor data
- Designed data pipelines for rare variant genomic analysis (WES and WGS data); steps included preprocessing data, linear regression analysis, and presentation

Computer Science Teaching Assistant (TA) | UMD | FAES-NIH

[August 2018 - May 2019, Jan 2021]

- TA for Introductory Coding Skills (2021) at FAES-NIH, Bioinformatic Algorithms (Spring 2019) and Introductory Web Development (Fall 2018) at University of Maryland
- Guided students on projects and course content, proctored and graded exams/quizzes, assisted students with technical troubleshooting, designed class activities, collected attendance data, held weekly office hours

Intern | AgriMetis LLC, Lutherville MD

[May 2018 - September 2019]

- Project Lead for ChemCart database set up of AgriMetis pipeline compounds Tier I/II results
 - Scripted Python program to parse the data files and created SOP's detailing database usage and scripting process
 - Worked directly with R&D Leadership and presented final project to company executives and team members
 - Designed dynamic Excel sheet to automate box and whisker plot generation, thus enhancing data presentation efficiency for company scientists
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POSTER PRESENTATIONS

Novel analytical tools in an admixed population identify systemic sclerosis susceptibility loci. Akshaya Anand, Janet Wang, Daniel Shriner, GRASP Collaborators, Daniel Kastner, Pravitt Gourh.

NIAMS IRP Scientific Retreat, National Institutes of Health

[June 2021]

Virtual Postbac Poster Day, National Institutes of Health

[April 2021]

LEADERSHIP AND SERVICE

Dance Teacher | Jayamangala School of Music and Dance, MD

[September 2019 - Present]

Machine Learning Engineer and Full Stack Web Developer | Virtual Stethoscope, PA

[March 2022 - Present]

AWARDS, RECOGNITION, AND PROJECTS

Intramural Research Training Award | National Institutes of Health

[September 2020 – Present]

EmergeNeed - *Awarded Best use of InterSystems FHIR services* | Stanford Treehacks

[February 2022]

* Awarded Best Hack to Kill COVID*

SheConnect – *Awarded Best Use of an AI Model* UMD Technica	[November 2021]
Augmented Reality Tools to Learn a Foreign Language UMD Technica (Tech + Research)	[November 2019]
CareFall FitBit App Johns Hopkins Medhacks	[September 2018]
CloseCall – *Awarded Best Hack for Aiding Natural Disaster Recovery Efforts* UMD Bitcamp	[April 2018]