

Amey Athavia

athavia.amey@gmail.com | (469)-883-9283 |

I AM A COMPUTER SCIENCE GRADUATE LOOKING FOR A SOFTWARE ENGINEERING OPPORTUNITY. I AM AVAILABLE TO START IMMEDIATELY

EDUCATION

UNIVERSITY OF TEXAS AT DALLAS

MS IN COMPUTER SCIENCE
Dec 2023 | Dallas, TX

SAVITRIBAI PHULE PUNE UNIVERSITY

BS IN COMPUTER ENGINEERING
Jun 2021 | Pune, MH

LINKS

Github:// [AmeyAthavia](#)
LinkedIn:// [Amey Athavia](#)
Portfolio:// [My Portfolio](#)

COURSEWORK

GRADUATE

Data Structures and Algorithms
Database Design
Artificial Intelligence
Natural Language Processing
Design and Analysis of Algorithms
Machine Learning
Computer Vision
Virtual Reality
Human Computer Interaction

SKILLS

PROGRAMMING

- Shell
- Python
- Javascript
- Tensorflow
- Pandas
- OpenCV
- Matplotlib
- MySQL
- MongoDB
- Node JS
- React JS
- Tailwind CSS
- Git

EXPERIENCE

BIOINFORMATICS AT UNIVERSITY OF TEXAS AT DALLAS |

RESEARCH ASSISTANT (SWE)

Jun 2023 – Dec 2023 | Dallas, TX

- Developed software solutions to analyze DNA data using object-oriented programming in Python as the primary language.
- Performed statistical analysis, data preprocessing and data visualization on genomic data using data structures and data science libraries including Pandas, NumPy, SciPy and Matplotlib.
- Collaborated with the team to refactor existing codebase, applying OOP design to improve code organization and scalability as well as using Git for version control and collaboration.

BUBBLE INSURANCE INC | DATA ENGINEER

Jan 2021 – Jun 2021 | Remote, India/USA

- Independently preprocessed datasets of millions of entries using the NumPy, pandas and NLTK python libraries. Utilized TensorFlow and matplotlib for data visualization and analysis.
- Applied programming techniques and advanced data structures and algorithms to optimize and improve the application.
- Using Agile methodology to work with a team on software development.

PROJECTS

WEBAPP FOR BLOGS Feb 2024 - Present | Dallas, TX

- Introduction and usage to Node JS, Express apps, use of MongoDB to design data format, store and retrieve data.
- **Tech Stack:** JavaScript, NodeJS, Express Apps, HTML, CSS, MongoDB

PORTFOLIO Feb 2024 - Present | Dallas, TX

- Using ReactJS and Tailwind CSS to develop a reactive Portfolio website.
- **Tech Stack:** JavaScript, ReactJS, Tailwind CSS, HTML

MODIFIED MORRIS NINE MEN'S USING GAME TREES Jan 2023 –

May 2023 | Dallas, TX

- Developed a modified version of Nine men's Morris game using game trees, minimax algorithms as well as AB search trees and employed the use of object-oriented programming in python.
- **Tech Stack:** Python, Git

OBJECT DETECTION, TRACKING IN VIDEO SURVEILLANCE Nov

2020 – Mar 2021 | Pune, MH

- Led the development for this project and was responsible for applying the machine learning algorithm and using Python, TensorFlow, SciPy, OpenCV, OOP to concepts of inheritance and polymorphism.
- **Tech Stack:** Python, Tensorflow, Pandas, Jupyter

PUBLICATIONS

- [1] A. Athavia, A. Deshmukh, S. Padman, and V. Zilpilwar. Detecting and tracking objects in a live video stream.