Rohit Shete

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Education

University of Maryland College Park, MD

BS in Computer Engineering - 3.7/4.0 *December 2025*

Relevant Coursework: Object Oriented Programming, Algorithms & Data structures, Signal Processing, Embedded Systems, Proof Based Math(Linear Algebra, Multivariable Calculus, Differentiable Equations), Computer Systems, Discrete Structures, Computer Organization, Digital Logic Design, Circuits

Experience

Software Engineering Intern May 2024 – Aug 2024

John Hancock *Boston, MA*

- Designed a streamlined container image for NGINX, and enhanced the existing Node image for future scalability.
- Optimized companies base container image library by reducing the number of needed files by over 50%
- Utilized GitHub actions to remove manual deployment of over 10 images, freeing engineers' time and ensuring the latest versions are deployed
- Updated Kubernetes pods to resolve 5 security compliance complaints identified in Prisma

Genome Computing Researcher Jan 2023 – Dec 2023

University of Maryland *College Park, MD*

- Used Python to extract data from over 100 files and create plots with pandas and seaborn
- Presented findings at a summit, showing that DNA lac loops prefer lower energy levels

Coding Tutor May 2023 – Aug 2023

Code Wiz *Needham, MA*

- Taught 7 - 9-year-olds coding in roblox and robotics (scratch)
- Taught up to 3 students at a time and taught over 20+ students

Data Analytics Intern June 2020 – Aug. 2021

Boston Children's Hospital *Remote*

- Analyzed gene mutation data to assess effects on nearby genes.
- Investigated heart condition correlations and mapped patient locations by zip code using data analysis in excel
- Used VBA macros to make daily blood pressure report, freeing over an hour of daily manual work

Projects

DNA Sequence Influence on Lac Loop Structures Dec 2023

- Created Jupyter Notebook and Python scripts to examine how properties of TAL sequence change with shifts
- Used Matplotlib, pandas, NumPy, seaborns, os, and regex to get relevant information from files and create plots
- Leveraged functions and lambda expressions to write clean, maintainable code.

Graph implementation in C May 2023

- Programmed a graph implementation in C, supporting operations such as adding and removing vertices, creating and deleting edges, and freeing memory.
- Utilized dynamic memory allocation and pointer arithmetic to efficiently manage nodes and their values.
- Uses free to prevent memory leaks and uses string functions to analyze the values

JaneStreet-DieAgony Jan 2023

- Built a Java application to simulate a die navigating through a grid using recursion and backtracking algorithms.
- Implemented pathfinding logic to explore all possible routes and validate correct and incorrect pathways.
- Ensured results were valid through testing

Technical Skills

Languages: Java, Python, C, OCaml, Rust, HTML/CSS, Unix
Technical: Docker, Kubernetes MATLAB, LaTeX, Git
Libraries: pandas, NumPy, Matplotlib, scikit-learn, regex