

Shouvik Majumder

267-455-2326 | shouvikprism@gmail.com | [linkedin.com/in/shouvikmajumder](https://www.linkedin.com/in/shouvikmajumder) | github.com/shouvikmajumder

EDUCATION

The Pennsylvania State University

Aug 2022 – May 2026

Bachelor of Science in Computer Science

University Park, PA

Relevant Coursework: Programming and Computation I - II, Object Oriented Programming, Intro to Systems Programming, Computer Engineering and Digital Design: Theory and Practice, Calculus I - III, Linear Algebra, Discrete Mathematics, Data Structures and Algorithms, Computer Organization And Design

TECHNICAL SKILLS

Programming: Python, Java, JavaScript, C, R, HTML, CSS, Node.js, Express.js, React.js, Verilog

Tools: Visual Studio Code, Netbeans, QT Designer, Jupyter Notebooks, Git, Linux/Unix, Unity, Vivado

WORK EXPERIENCE

Software Engineer Intern

June 2025 – Aug 2025

Lockheed Martin

King of Prussia, PA

- Incoming Software Engineer Intern at **Lockheed Martin** in the **Rotary and Mission Systems** division

Teaching Assistant

Aug 2024 – Present

The Pennsylvania State University

University Park, PA

- Grading assignments, quizzes, and exams for a **Linear Algebra (MATH 220)** course with **100+ students**
- Providing feedback on **600+** weekly student submissions, enhancing clarity and understanding of course material

Software Engineer Intern

May 2024 – Aug 2024

The Pennsylvania State University

University Park, PA

- Developed a **Python** application using **QT Designer**, **obspy**, and **daspy** data structures to process and visualize data from **2,000+ fiber optic sensor channels**, aiding geophysicists in analyzing seismic events
- Implemented a frequency analysis feature that generates 3 critical graphs, displaying raw data, dominating and average frequencies across all channels, enhancing data interpretation process for geophysicists
- Integrated a Bandpass filter option within the interface to isolate and analyze specific signals, resulting in a **25%** increase in the precision of geohazard readings

Statistical Programming Intern

June 2024 – Aug 2024

The Pennsylvania State University

University Park, PA

- Utilized **R** to import, clean, and analyze survey data from **200+ physicians** and **50+ medical students** on the **AI in Clinical Workflow** project to assess the impact of AI on the medical field
- Generated **40+** statistical reports from the cleaned data, contributing to the project's comprehensive analysis of AIs' influence on clinical practices
- Increased data processing efficiency by **30%** through automating data cleaning tasks using **R**, **dplyr**, and **tidyr**

PROJECTS

Movie Recommendation System | *Python, Scikit-learn, Pandas, JupyterLab*

- Developed a movie recommendation system in JupyterLab using Python (Pandas, Scikit-learn) to manage an IMDB dataset of **500+** movies, utilizing TF-IDF vectorization for natural language processing

AI Image Generation App | *MongoDB, Express.js, React.js, Node.js*

- Developed a full-stack AI Image Generation App using the MERN stack (MongoDB, Express.js, React.js, Node.js) with **20+** modular React components, integrating OpenAI's DALL-E model to generate high-quality images based on dynamic user input

EXTRACURRICULAR ACTIVITIES

Research Assistant

May 2024 – Present

The Pennsylvania State University

University Park, PA

- Conducting literature searches on **1000+** articles using 3 scholarly databases (**PubMed**, **Web of Science**, and **SSRN**) to retrieve and archive articles related to biotechnology, aiding in the research team's analysis
- Enhancing data reliability by verifying **170+** findings through cross-referencing multiple sources, ensuring the reliability of the collected data for ongoing research