Shouvik Majumder

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EDUCATION

The Pennsylvania State University — Aug 2022 – May 2026
Bachelor of Science in Computer Science — University Park, PA
Relevant Coursework: Data Structures and Algorithms, Operating Systems, Object-Oriented Programming

SKILLS AND CERTIFICATIONS

Security Clearance: Secret
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 for Linear Algebra (MATH 220) and Plane Trigonometry (MATH 26) courses 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
- Built a Python-based GUI with QT Designer to visualize and analyze seismic data from 2,000+ fiber optic sensor channels
- Implemented a frequency analysis feature to generate raw, dominant, and average frequency graphs, streamlining seismic event interpretation
- Enhanced signal precision by 25% through integration of a Bandpass filter for isolating relevant frequency ranges

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
- Generated 40+ statistical reports from the cleaned data, contributing to the project's comprehensive analysis
- 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 using TF-IDF vectorization for NLP on an IMDB dataset of 500+ films

EXTRACURRICULAR ACTIVITIES

Research Assistant — May 2024 – May 2025
The Pennsylvania State University — University Park, PA
- Conducted literature searches on 100+ articles using PubMed to support biotechnology research on ELSI
- Enhanced data reliability by verifying 170+ findings through cross-referencing multiple sources
- Drafted a manuscript examining the impacts of intellectual property on 3D bioprinting, addressing legal, ethical, and translational challenges