

# Mohid Tanveer

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## EDUCATION

<b>University of California, San Diego</b> <i>M.S. Computer Science, Overall GPA 3.9/4.0</i>	<b>September 2025 - December 2026</b> <i>San Diego, CA</i>
<b>Rhodes College</b> <i>B.S. Computer Science, Overall GPA 3.91/4.0</i>	<b>August 2021 - May 2025</b> <i>Memphis, TN</i>

▪ **Relevant courses:** Recommender Systems and Web Mining, Probabilistic Reasoning & Learning, ML: Learning Algorithms, Adv. Data-Driven Text Mining, Unsupervised Learning, Computer Security

▪ **Relevant courses:** Machine Learning, Artificial Intelligence, Mathematical Statistics, Statistical Analysis, Multivariable Calculus, Advanced Algorithms, Theory of Computation, Systems Programming and Computer Organization

## EXPERIENCE

<b>St. Jude Children's Research Hospital</b> <i>High-Performance Research Computing - Student Artificial Intelligence Engineer</i>	<b>May 2024 - May 2025</b> <i>Memphis, TN</i>
▪ Developed and deployed an internal chatbot service powered by a Retrieval-Augmented Generation (RAG) pipeline, ensuring secure handling of sensitive HPC system data. Leveraged local LLM inference, vector databases, and knowledge graphs to enhance response precision, achieving an 80% reduction in ServiceDesk ticket volume.	
▪ Collaborated with researchers to support machine learning and AI tool development, including data preprocessing, model training, and pipeline integration for various research projects.	
<i>High-Performance Research Computing - Intern</i>	
▪ Developed a Flask-based job server microservice on a virtual machine to automate the conversion of tagged image files into SyGlass project files. Integrated with an internal imaging file-sharing platform and leveraged Slurm for resource allocation and job scheduling, streamlining researchers' workflows and improving productivity.	
▪ Developed and implemented automated network testing, data visualization, and analysis systems focused on research storage across St. Jude's campus, enabling consistent performance evaluation and early detection of network anomalies.	
▪ Set up Splunk logging on workstations to analyze machine utilization and generate metrics and data visualizations for informed resource allocation.	
<b>Rhodes College Department of Computer Science</b> <i>Peer Tutor</i>	<b>August 2023 - May 2025</b> <i>Memphis, TN</i>
▪ Tutored and guided ~200 introductory and intermediate Computer Science students in twice-weekly sessions	
▪ Explained core programming and systems concepts, including object-oriented programming, pointers, memory management, process architecture, and system-level design.	

## PROJECTS

<b>Tubify</b> <i>Web Application</i>	<b>February 2025 - April 2025</b> <a href="#">Repository Link</a>
▪ Built a full-stack app to share and explore music tastes, surfacing friends with similar listening profiles.	
▪ Engineered a scalable data pipeline to batch-process and store extracted audio features and user-specific data in a PostgreSQL-backed architecture, ensuring efficient retrieval and long-term persistence.	
▪ Extracted audio features using Librosa and GPU-accelerated signal processing, applying FFT-based analysis to quantify musical characteristics for richer recommendations.	
▪ Built a personalized music recommender system combining collaborative filtering, content-based analysis, taste clustering, and MMR reranking to adapt recommendations through continuous feedback.	
<b>ScreenSense</b> <i>Course Project</i>	<b>December 2025</b> <a href="#">Repository Link</a>
▪ Built a hybrid EXIF, wavelet-CNN, and sub-pixel based detector for identifying screen re-photos at verification time.	
▪ Achieved state-of-the-art detection using a metadata-driven random-forest prior fused with learned pixel-level signals.	

## SKILLS

**Languages:** Advanced in Python. Proficient in C, Java, HTML/CSS, JavaScript, and SQL. Experienced in C++ and R.  
**Tools:** TensorFlow, PyTorch, PySpark, Power BI, Docker, NumPy, Scipy, Pandas, Git/GitHub, GNU/Linux, Node.js.  
**Languages:** Fluent in English, Urdu, and Punjabi; Conversational Proficiency in Spanish, Hindi | **Honors:** Eagle Scout