Kevin Mathew Maran

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PROFILE & OBJECTIVE

Motivated Computer Science Master's student at UTSA (GPA: 4.00) with a strong foundation in programming languages, databases, cloud and cybersecurity tools seeking 2025 Summer internship opportunities in Software Engineering, Data Science and Cybersecurity fields to apply my expertise in solving complex problems and contributing to innovative projects.

EDUCATION

Master of Science in Computer Science (GPA: 4.00/4.00)

University of Texas at San Antonio (UTSA) – San Antonio, TX   Aug 2024 – May 2026 (Expected)

Relevant Coursework: Algorithms, Data Structures, Operating Systems, Cybersecurity Principles, Penetration Testing, Software Engineering, UML Diagrams, Testing

Bachelor of Engineering in Mechanical Engineering (GPA: 3.97/4.00)

Anna University – Chennai, Tamil Nadu. India   Sep 2018 – July 2022

RESEARCH

Research Volunteer – Data Augmentation for Machine Learning models

University of Texas at San Antonio (UTSA) – CareAI Lab   Oct 2024 – present

- Conducting research on decision tree-based machine learning models to mitigate class imbalance in datasets
- Implementing data augmentation techniques to improve model accuracy and fairness

WORK EXPERIENCE

Packaged App Development Associate (5 months)

Accenture India Pvt. Ltd.   Apr 2024 – Aug 2024

- Learned Unix scripting, C++ coding and Oracle database within a month by extensive hands-on training
- Cleared all technical assessments and gained exposure to agile and scrum software development environments

SKILLS

- **Programming Languages:** Python, C, C++, Java, Assembly language, Object-Oriented Programming (OOP)
- **Machine Learning:** Artificial Neural Networks (Keras, Tensorflow, PyTorch), Decision Tree
- **Data Tools and Visualization:** Python (NumPy, MatPlotLib, Pandas, SciPy)
- **Database Management Systems:** MySQL, Oracle SQL
- **Operating Systems:** Unix (Bash Shell), Linux, Windows (Batch, CMD, PowerShell)
- **Cloud Technologies:** AWS Cloud, Google Cloud Platform
- **Web Development:** HTML, CSS, JavaScript, ReactJS
- **Version Control System:** Git, GitHub
- **Productivity Tools:** Microsoft Excel 365 (Pivot Tables, Power Query), Visual Basic for Applications, TeX
- **Cybersecurity Tools:** Kali Linux, Metasploit, Gobuster, nmap

CERTIFICATIONS

- PCAP: Certified Associate in Python Programming (Python Institute)   Jan 2025
- Building Neural Networks: Artificial Neural Networks Using Frameworks (Skillsoft)   Nov 2023
- MO–211: Microsoft Excel Expert (Microsoft 365 Apps)   Sep 2023

PROJECTS

Hangman Game with Leaderboard (Python, MySQL)   Dec 2023

- Developed an interactive GUI-based Hangman game by utilizing Python's Tkinter module
- Implemented real-time leaderboard tracking to improve user engagement by integrating MySQL database

Matrix Multiplication for Finite Element Analysis (Python)   Dec 2020

- Designed an efficient matrix multiplication algorithm to accelerate finite element computations by using Python
- Improved robustness to prevent runtime failures by implementing exception handling mechanism

ACHIEVEMENTS

- Ranked #1 among 12,091 students in Mechanical Engineering at Anna University and awarded Gold Medal
- Successfully transitioned from Mechanical Engineering to Computer Science, demonstrating adaptability and a strong learning curve