

Kevin Mathew Maran

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EDUCATION

- MS Computer Science** – Cybersecurity and Data Science concentration
University of Texas at San Antonio – San Antonio, TX, USA
GPA: 4.00
Aug 2024 – May 2026 (Expected)
- BE Mechanical Engineering**
Anna University – Chennai, TN, India
GPA: 3.97
Sep 2018 – July 2022

SKILLS

- Programming Languages:** Python, C, C++, Java, x86 Assembly language, MIPS Assembly language
- HPC, Parallelization and GPU:** Python NUMBA, MPI programming, CUDA Toolkit, OpenMPI
- ML and LLM:** Neural Networks (Keras, Tensorflow, PyTorch), LangChain, Transformers
- Data and Visualization:** Python (NumPy, Matplotlib, Pandas), MS Excel (Pivot and Power Query)
- Database Management Systems:** MySQL, Oracle SQL, MongoDB, PostgreSQL
- Operating Systems:** Unix, Ubuntu, Linux (bash, zsh), Windows (Batch, CLI, PowerShell)
- Cloud and Web Tech:** AWS, Google Cloud (GCP), HTML, CSS, JavaScript, ReactJS, WordPress
- Version and Environment:** Git, GitHub, Azure DevOps, VSCode, Conda Environment
- Productivity Tools:** Microsoft Office, Visual Basic for Applications (VBA), Overleaf LaTeX
- Cybersecurity Tools:** Kali Linux, Metasploit, BurpSuite, Wireshark
- Miscellaneous:** Paraview, OpenFOAM, MATLAB, Ansys APDL, Creo, AutoCAD, CNCTrain

EXPERIENCE

- Graduate Research Assistant** – CTV Lab, UT San Antonio
Jun 2025 – present
 - Working on optimizing Python based GPU targeted postprocessing tool AQUILA on NVIDIA H200 GPU nodes
 - Working on CFD simulation and visualization tools like Paraview-6.0.0, OpenFOAM-v2506 and MATLAB
- Graduate Research Volunteer** – CareAI Lab, UT San Antonio
Oct 2024 – present
 - Assisted research on SMOTE based Data Augmentation to address class imbalance in dataset for training ML models
 - Developed a GPU accelerated python pipeline for ASR models to study the bias with L2 English speakers
- Summer AI Intern** – Mind Labz Technology Solutions LLC, San Antonio, TX
May 2025 – Aug 2025
 - Developed RAG-based software products utilizing LangChain and LLM APIs to automate complex data analysis tasks
 - Tested the alpha version of products to improve the experience in user and working perspectives
- Associate Software Engineer** – Accenture, Chennai, TN, India
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

PROJECTS

- Distributed Math Service** (Python XML-RPC)
May 2025
 - Built a multithreaded Python XML-RPC server with atomic invocation counting via a threading.Lock
 - Developed a client sending 1,000 randomized RPC calls using concurrency and end-to-end middleware integration.
- 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 increase user engagement by integrating MySQL database
- Finite Element Analysis Matrix Multiplication Optimizer** (Python)
May 2021
 - Implemented an optimized Python algorithm to accelerate matrix operations in FEA
 - Improved reliability with exception handling to prevent runtime failures

CERTIFICATION

- 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 365 Expert (Microsoft)
Sep 2023

ACHIEVEMENTS

- Received competitive scholarship in UT San Antonio for the Fall 2025 semester from the Computer Science department
- Received competitive scholarship in UT San Antonio for the year 2024 – 2025 through Indian Student Association (ISA)
- Ranked #1 among 12,091 students in Mechanical Engineering at Anna University and awarded Gold Medal