

Kevin Pulikkottil

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GitHub: github.com/kpulik

Portfolio: <https://kpulik.github.io/Portfolio/>

Education:

The University of Texas at Dallas; Richardson, TX

Bachelor of Science in Computer Science (May 2026)

Recent Academic Performance: 3.19 GPA (Spring 2025), 3.27 GPA (Fall 2024)

Currently in-progress for a **CompTIA Security+ Certification**

Campus Clubs:

- **Computer Security Group**
- **Cyber Defense and Response Unit**
- Artificial Intelligence Society
- Association of Computing Machinery
- Google Developer Student Club.

Technical Skills:

- **Programming Experience:** Java, C++, MIPS Assembly, Python, SQL, Haskell, Prolog
- **Tools & Technologies:** AWS, Git, Data Visualization, Jupyter Notebooks, TensorFlow, Google Colab
- **Machine Learning & AI:** Neural Networks, Regression Models, NLP, Data Preprocessing, CNN, YOLOv3
- **Cloud Computing & Security:** AWS Cloud Services, Network Security, Cloud Billing
- **Problem Solving:** Data Structures, Algorithms, AI Systems, Linear Algebra

Current Courses:

Database Systems

- Topics include data models, data normalization, data description languages, query facilities, file organization, index organization, file security, data integrity, and reliability.

Artificial Intelligence

- Concepts and techniques for intelligent computing, with examples from natural language, vision, machine learning, search, logic, and theorem proving.

Automata Theory

- Study of abstract machine computation: finite automata (deterministic and nondeterministic), regular expressions and languages, context-free grammars, pushdown automata, Turing machines, and undecidability.

Computer Networks

- Design and analysis of computer networks, covering the ISO model, transmission media, access protocols, LANs,

data link protocols, routing, congestion control, internetworking, and connection management.

Project Experience:

Algoverse Coding Academy

AI Research Program (February 2024 – May 2024)

- **Breast Cancer Detection Model:** Developed a machine learning model using the Breast Cancer Wisconsin Dataset in Python (scikit-learn, pandas, NumPy) to classify breast cancer diagnoses. Achieved 92% accuracy and improved the initial model accuracy by 10%.
- **Recognizing Handwritten Digits (MNIST Dataset):** Built a Convolutional Neural Network (CNN) in Python (TensorFlow, Keras) to classify handwritten digits. Achieved a 98% accuracy on test data.
- **Predicting Diabetes Metrics:** Created a regression model using Python (scikit-learn) to predict patient diabetes metrics based on health data. Improved predictive accuracy by 15% through feature engineering and model refinement.
- **NLP for Text Summarization:** Developed a Transformer-based NLP model for text summarization using Python (TensorFlow, Hugging Face Transformers). The model achieved an 85% compression rate with 90% coherence in the summaries produced.
- **Fine-Tuning YOLO Algorithm for Object Detection:** Fine-tuned YOLOv3 for real-time object detection on a custom dataset using Python (OpenCV, TensorFlow). Improved detection precision by 5%.

Linear Algebra Matrix Operations Program

- Built a Python program to perform matrix operations, including rank calculation, determinants, and eigenvalues.

Stock Analysis Program

- Developed a tool using **Python, Matplotlib, and Finnhub API** to analyze stock data and calculate stock option prices. Enhanced the project with real-time data visualization and regression techniques.

Certifications & Honors:

- **Eagle Scout** (January 2021)
- **AWS Certified Solutions Architect - Associate (SAA-C03)**
Cert Prep: 1 Cloud Services Overview, December 2023
Skills: Cloud Services, Amazon Web Services (AWS)
- **SQL Essential Training**, May 2023
Credential ID: AWvtxidA4C8HIGk6leG-OhkWulq
Skills: SQL
- **Introduction to AWS for Non-Engineers: 1 Cloud Concepts**, March 2022
Skills: Cloud Computing, Amazon Web Services (AWS)
- **Introduction to AWS for Non-Engineers: 2 Security**, March 2022
Skills: AWS Security, Network Security
- **Introduction to AWS for Non-Engineers: 3 Core Services**, May 2022
Skills: Amazon Web Services (AWS)