

ARYA KUMAR

US Citizen | Austin, TX | +1-512-810-6055 | arkaryakumar@gmail.com | LinkedIn : [arkaryakumar](#) | [Personal Site](#) |
GitHub : [hyper-ark](#)

EDUCATION

Texas A&M University Bachelor of Science in Computer Science, Minor in Mathematics	DEC 2026
<ul style="list-style-type: none">Student in the Engineering Honors program enrolled in challenging honors classes and research studies.Honors Coursework GPA: 4.0Relevant Coursework: Software Engineering, Data Structures and Algorithms, Database Systems, OOP & FOP, Computer Organization, Computer Systems, C++, Python, Calculus, Linear Algebra	
Austin Community College Associate of Science in Mathematics	DEC 2025

EXPERIENCE

Software Engineer Intern Lockheed Martin	MAY 2025 - JUL 2025
<ul style="list-style-type: none">Secured interim Secret clearance and developed within a secure, air-gapped Linux environment to support F-35 CPSW (Core Processing Software) automation for development and testing, part of an Agile (Scrum) team.Automated hardware-in-the-loop (HIL) Python testing of RTOS software on F-35 test station by updating 236 SWAT (Software Automated Testing) test scripts to accept dynamic hardware parameters, reducing certification time by 60% and improving airborne software defect detection rate by 70% for F-35 Linux applications.Provisioned and automated lifecycle management of six secure network machines as GitLab Runners from legacy Jenkins nodes using Infrastructure as Code (IaC), streamlining CI/CD workflows that include pipelines for C++ and Python projects, integrating automated validation frameworks.Engineered "Restartinator" pipeline using YAML and Python scripts to automate the refresh of pipeline build nodes, improving deployment reliability and pipeline efficiency by 50%.Automated migration of 8 repositories via Python tooling and updated Jenkins pipeline configurations, reducing migration efforts by 20% and improving deployment stability by 15% across distributed Linux infrastructure.Developed two Python automation tools (546 LOC) utilizing GitLab/Bitbucket REST APIs to aggregate open PR/MR metadata via a Jenkins pipeline and publish an hourly status dashboard to Confluence.Led a 1-hour training on GitLab's CI/CD environment as part of upskilling the automation team, presenting my IaC-based provisioning of runners and automated "Restartinator" pipeline.	
Ignite Accelerator Program AI4ALL	JAN 2024 - MAY 2024
<ul style="list-style-type: none">Accepted into a virtual accelerator program to build an artificial intelligence portfolio project with a team alongside guidance from AI industry experts, concluded with a project presentation at a student symposium.Developed a plant disease detection program named "SproutDoc" utilizing computer vision, convolutional neural networks, and trained a custom deep learning model using a dataset of plant diseases with 94% accuracy.	
Credit Card Fraud Detection Project	JUL 2024
<ul style="list-style-type: none">Developed a machine learning pipeline in IBM Watson Studio using Pandas and Scikit-Learn for data prep, feature engineering, and deployment.Engineered transaction amount metrics, time-based aggregations, and merchant category indicators to boost fraud sensitivity and reduce false negatives by 15%.Trained Logistic Regression, Random Forest, and XGBoost on imbalanced data with SMOTE and cross-validation to achieve an AUC of 0.97.	

SKILLS

Languages: C++, Python, Java, C#, C, Haskell, JSON, YAML, R

Databases: AWS

Libraries: Matplotlib, Scikit-learn, Pandas, Numpy, TensorFlow, OpenCV

Tools: Linux, Jenkins, Bitbucket, GitLab CI/CD, GitHub, Jira, Atlassian Software Suite, Microsoft Office Suite

Concepts: DevSecOps, DevOps, CI/CD, Infrastructure as Code (IaC), Object-Oriented Programming, Machine Learning, Agile

CERTIFICATIONS

Fundamentals Specialization AWS	JUN 2025 - AUG 2025
<ul style="list-style-type: none">Architected secure and scalable solutions using EC2, S3, RDS, and VPC (subnets, load balancing, auto scaling).Configured IAM roles and policies and applied the shared-responsibility model.Monitored and optimized resources with CloudWatch, evaluated storage (S3, EBS, RDS, DynamoDB) and API Gateway use cases.	

HONORS

Craig and Galen Brown Engineering Honors Scholar - Top 10% of students accepted and awarded with honors	AUG 2024
Dean's Honor Roll - Maintaining a 3.75+ GPA through rigorous and demanding engineering curriculum	2024 - 2025
Gold HackerRank - Gold badges in C++ , Python , and Java with mastery in algorithms and data structures .	MAY 2022
AP Scholar with Distinction College Board - Awarded for high-achieving scores on several AP exams	JUN 2022
High School Aerospace Scholars Alumni NASA - Successful completion of NASA's STEM courses and Moonshot	JUL 2022