HARIS ADNAN

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Education

Duke University   **Aug 2020 – May 2024**
*BSc in **Computer Science**, BSc in **Physics**, and **Innovation & Entrepreneurship** Certificate*   *GPA : 3.7*
100% Karsh Scholarship

Courses: Advance DSA, Advance Software Design, Computer Systems, Discrete Maths, Graphics, Quantum Physics & Relativity

The University of Texas at Austin   **Feb 2025 – Sep 2025**
*Certificate in **Artificial Intelligence** & **Machine Learning***

Experience

Dell Technologies - CIAM   **July 2025 - Present**
Software Engineer 2 / Scrum Master   *Austin, TX*
- Led SCRUM events and development as Scrum Master and senior contributor for the Access Management team.
- Owned authentication & authorization flows for OIDC-based SSO using Microsoft Azure, **Go**, **Java**, and REST APIs.
- Headed development and adoption of a centralized IAM platform for Dell storage devices, standardizing authentication across **4** products and reducing duplicate identity integrations by **60%**.

Dell Technologies - Powerstore   **July 2024 - July 2025**
Software Engineer 1   *Austin, TX*
- Owned end-to-end design, implementation, testing, and rollout of core control-path software for Dell **PowerStore**, enabling **40%** code re-usability across products and reducing feature delivery time by **30%** using **RxJava** (asynch programming), **Bash**, and **Python**.
- Developed a PyTorch-based NLP **classification** model to automatically triage PowerStore logs using deep learning techniques, cutting analysis time by **60%** and fixing **25+** code bugs in **3** months. Won best project at Dell Hackathon.
- Engineered mirroring **Witness** backend with automatic failover, reducing recovery time from **15+ min** to **< 30 s**.
- Collaborated with senior engineers in cross-functional teams to review designs and ensure backward compatibility.

Dell Technologies - Storage, DevOps   **June 2022 – August 2022, May 2023 – August 2023**
Software Engineer Intern   *Raleigh, NC & Austin, TX*
- Built distributed **Java microservices** using **Kafka** to process and compress **6M+** telemetry messages, reducing storage costs by **30%** and improving scalability by **40%**.
- Developed an intelligent **Python chat bot** using NLP (TensorFlow, NLTK) to predict CI/CD build error causes with **98.7%** accuracy, used by **7,000+** developers per push.

Duke University Union - DevOps   **November 2020 – May 2024**
President / Web App Engineer   *Duke University*
- Led **4** cross functional teams of **24** developers in sprints with **Duke OIT** to create 3 Duke websites and 2 web apps.
- Owned development of Duke@Nite Trivia App using **React.js** and **Firebase** for **1,200+** student users in live events.

Projects

Matchstick | *Next.js, Python, PostgreSQL, Supabase, OpenAI API, Stripe*   **July 2024 - Present**
- Co-founded & engineered a B2B networking **AI platform** for matchmakers with automated client matching & handling.
- Created **AI Agents** for lead gen, KNN models, Siamese Neural Networks & NLP for stable matching of profiles.
- Generated **$20+** from **500+** users in the **Antler** 6 weeks accelerator (world's most active early-stage investor).

Graphics System Software | *C++, C, VS Code*   **November 2022 - April 2023**
- Developed **2D graphics engine** with features like blending & advanced geometry equivalent to **Google's Skia**.
- Optimized efficiency by **130%** by using core computer science concepts like memory optimisation & compression.

Board Game IDE | *Java, IntelliJ*   **April 2022 - June 2022**
- Led an Agile SCRUM team of **8** developers to engineer an IDE (**27,000** lines of code) with game builder and player.
- Engineered interactive interface to create & play **any** possible 2D board game. **5,000+** downloads on Google Play.
- Trained **ML** model using supervised learning with **RLlib** & **Scikit-learn** to beat human in any new game created.

Technical Skills

Languages: Python, Java, C, C++, Go, MATLAB, PostgreSQL, TypeScript
Technologies/Frameworks: Git, Pandas, NumPy, PyTorch, REST APIs, Docker, RxJava, Linux, Kafka
Activities: Pakistani Student Assoc President, DUMUNC, Duke Applied Machine Learning, Communications Coach