

Rohan Jakkal

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EDUCATION

University of Texas - Dallas

May 2025

Bachelor of Science in Computer Science

Associations: Microsoft Cybersecurity Scholar/Ambassador, Dell Campus Ambassador, Top 250 Optiver Hackathon, Cybersecurity Club, ACM - Undergraduate Research, Airsoft Club, Microsoft Certified, Computer Security Group

EXPERIENCE

Dell Technologies

Austin, TX

Software Engineer Intern - ML/Generative AI Research

May 2024 – August 2024

- Collaborated on cutting-edge projects within Dell's AI Research and Innovation Office, focusing on projects under NDA.
- Developed and optimized machine learning models and algorithms using Sklearn, PyTorch, and Tensorflow to enhance and explore innovative approaches in generative AI.

Software Engineer Intern - Cloud

May 2023 – August 2023

- Engineered software for effortless application deployment across public and private clouds via an intuitive UI dashboard, increasing operational efficiency by 87% and reducing cloud deployment time by 97%.
- Integrated cloud architecture with external PostgreSQL and RabbitMQ, enhancing data efficiency and enabling seamless microservices communication, facilitating horizontal scaling.
- Analyzed Dell's technology to identify strategic use cases and create innovative deployment strategies.

UTD Cybersecurity Club

Dallas, TX

Vice-President

August 2021 – Present

- Enhancing event excellence with industry insight by leveraging industry connections for higher event quality, consistently attracting 100+ attendees on average.
- Fostering collaborations for engaging content by orchestrating dynamic events in partnership with cybersecurity professionals, cultivating an environment of mutual learning and practical insights.
- Refining events through establishing a feedback system, adapting events to evolving member preferences, and ensuring consistently high satisfaction levels.

UTD Airsoft Club

Dallas, TX

President

August 2021 – Present

- Leading officers and members to execute successful events, boosting club visibility and membership. Managing sponsor relationships, lowering costs and aligning with budget goals.
- Ensuring safety while playing the game, ensuring university compliance and accountability through policy.

PROJECTS

DNS Wall | *Co-Founder and CEO - dnswall.privatebrowsing.org*

August 2021 – Present

- Pioneering and spearheading the development of a cutting-edge zero-trust DNS filtering service, offering robust protection against malware, phishing, and unauthorized content to safeguard online users.
- Successfully launched the service, delivering superior user experience and expanding to many satisfied clients.
- Establishing strategic alliances with prominent industry players, such as ISPs, network equipment vendors.

FPGA Superfast Calculator | *Developer - [Github.com/SharpPig/basys-3-fpga-board-16-bit-calculator](https://github.com/SharpPig/basys-3-fpga-board-16-bit-calculator)*

- Developed a byte calculator on the BASYS 3 FPGA board using Verilog, allowing superfast operations on two values.
- Implemented features for addition, subtraction, multiplication, division, and modulus, displaying results on LEDs.
- Created Verilog modules for button debouncing and byte calculation logic with Xilinx Design Constraints.

TECHNICAL SKILLS

Languages: Java, C/C++, Python, Swift, Kotlin, Lua, Rust, Ruby, JavaScript, SQL (Postgres), Shell Script, Verilog

Libraries: Sklearn, PyTorch, Tensorflow, Git, Docker, AWS, Azure, GCP, VS Code, PyCharm, IntelliJ, Eclipse, Helm, Kubernetes, Linux, PKI

Frameworks: React, Node.js, Flask, JUnit, WordPress, Material-UI, FastAPI, Spring Framework, pandas, NumPy, Matplotlib, GraphQL, RabbitMQ