Casey Nguyen

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EDUCATION

University of Texas at Dallas　　　　　　　　　　　　　　　　　　　　Aug. 2023 – Dec. 2026
GPA 3.75, B.S Computer Science　　　　　　　　　　　　　　　　　　　　　　　　Richardson, TX

Awards

Dean's List Since Spring 2024 (Top 10 Percent of All UTD Undergraduates)　　　　Spring 2024 - Present

Relevant Courses

- Data Structures and Algorithms
- Software Engineering
- Computer Architecture
- Database Systems
- Advanced Algorithm Design and Analysis
- Systems Programming in UNIX

EXPERIENCE

Software Engineering Intern　　　　　　　　　　　　　　　　　　　　　Sep. 2025 - Present
Applied Concepts, Inc.　　　　　　　　　　　　　　　　　　　　　　　　　　　Richardson, TX

- Developed full-stack web applications using C#, ASP.NET, and SQL, supporting the company's transition to cloud-based platforms.
- Collaborated with engineers to implement UI and backend functionality for a customer-facing website, helping the company market and sell radar and speed enforcement products.
- Built and tested TCP/IP-based networking modules, RESTful APIs, and database integrations, improving website reliability and enhancing the overall customer experience.

Software Development Instructor　　　　　　　　　　　　　　　　　　　　Sep. 2025 - Present
iCode School Franchise　　　　　　　　　　　　　　　　　　　　　　　　　　　　Murphy, TX

- Taught coding, robotics, web, and mobile app development across age groups 5–15, including Python, Java, Minecraft/Roblox, UE5 game development, and AI tools like ChatGPT.
- Mentored students on programming, drones, and cybersecurity projects, fostering problem-solving, technical confidence, and independent learning.
- Led small student teams on hands-on projects, promoting collaboration, teamwork, and practical application of coding concepts.

PROJECTS

Crowd-Sourced Disaster Relief Platform　　　　　　　　　　　　　　　　　　　　　2025
Dart, Python, C++, CMake, Flutter, Firebase

- Collaborated on a 3-person team as the Project Manager and lead Full-Stack Engineer, implementing backend services (Firebase, Python) and mobile UI (Flutter) to deliver a flawless cross-platform experience.
- Designed and deployed an AI-driven matching system that connected victims with the nearest available aid, reducing simulated response times by 40 percent.
- Integrated geo-location services, real-time disaster mapping, and a secure donations portal, enabling scalable support for hundreds of concurrent requests.

AI/ML Development　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　2024
Python, TensorFlow, PyTorch, NumPy

- Implemented a knowledge-based inference engine capable of logical reasoning over structured facts, enabling the system to answer queries and derive new conclusions.
- Applied core AI techniques such as search algorithms, inference, and optimization to build small-scale but functional intelligent systems.

TECHNICAL SKILLS

Programming Languages:	Java, Python, C++, SQL, JavaScript, C#, C, Go, TypeScript, Dart
Frameworks and Libraries:	React, Angular, Vue, Flutter, ASP.NET, Node.js, Django, FastAPI
Databases:	MySQL, PostgreSQL, Oracle, MongoDB, Firebase
Soft Skills:	Problem-Solving, Communication, Teamwork, Goal-Oriented, Abstract Thinking