Casey Nguyen

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EDUCATION

University of Texas at Dallas   Aug. 2023 – Dec. 2026
GPA 3.80, B.S Computer Science   Richardson, TX

Awards

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

Relevant Courses

- Data Structures and Algorithms
- Advanced Algorithm Design and Analysis
- Software Engineering
- Database Systems
- Object-Oriented Design
- Computer Architecture

EXPERIENCE

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

- Developed and maintained full-stack web applications using C#, ASP.NET, MS SQL, React and HTML/CSS/Javascript for traffic device monitoring platforms.
- Built scalable RESTful APIs and integrated React-based dashboards for live data visualization from Azure-hosted services.
- Implemented real-time device communication modules via TCP/IP, improving data sync reliability and latency.
- Enhanced database performance and Azure deployment workflows, increasing uptime and maintainability.
- Collaborated with software, network, and hardware engineers to design UI features, backend logic, and cloud pipelines.

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

- Taught programming and app development (Python, Java, JavaScript, HTML/CSS, UE5, and AI tools like ChatGPT) to students ages 5–15.
- Mentored small project teams in robotics, web apps, and cybersecurity, building teamwork and problem-solving skills.

PROJECTS

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

- Led a 3-person team as Project Manager and Full-Stack Engineer to build a cross-platform web/mobile app connecting disaster victims with nearby aid.
- Designed AI-driven matching and real-time mapping features, cutting simulated response times by 40%.
- Integrated geo-location, donation portals, and offline data sync to ensure reliability during outages.
- Implemented robust data synchronization between cloud storage and mobile clients, improving reliability and ensuring offline accessibility during network disruptions.
- Coordinated code reviews, CI/CD pipelines, and agile sprints for production-ready releases.

NFL Season Standings Predictor   2025
Python, PyTorch, FastAPI, Pytest, Pandas, Scikit-learn

- Developed a machine learning model using PyTorch to predict NFL team standings based on historical performance, player stats, and game outcomes.
- Built a FastAPI backend to expose prediction endpoints for interactive querying and real-time analysis.
- Implemented Pytest for unit and integration testing of data processing pipelines, model inference, and API endpoints.
- Performed feature engineering and data preprocessing with Pandas to improve model accuracy by 15%.
- Visualized predicted vs. actual standings using Matplotlib/Seaborn for performance insights and reporting.

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:	MS SQL, MySQL, PostgreSQL, Oracle, MongoDB, Firebase
Tools:	Git, Azure, AWS, Github, Gitlab, Docker
Soft Skills:	Problem-Solving, Communication, Teamwork, Goal-Oriented, Abstract Thinking