THU NGUYEN

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SKILL

- **Languages**: JavaScript, TypeScript, PHP, C#, Kotlin, Python, Java
- **Web development**: HTML, CSS, React, Angular, Node.js, MongoDB, SQL
- **Mobile development**: React Native, Android (Kotlin, Jetpack Compose)
- **Tools**: Claude Code, Splunk, Git, Figma, Jira, Postman, Docker, Selenium (Automation Testing)

EXPERIENCE

Paycom Payroll LLC – Software Developer | *Irving, TX*   *Jan 2025 – Feb 2026*

- Enhanced a scalable reporting module by adding new fields and advanced filters, enabling clients to schedule comprehensive reports (PHP, jQuery, SQL), reduced manual report generation by 70% by shifting data pulls and calculations from Excel-based workflows into the system.
- Designed and implemented state management architecture using React Context and migrated the Advanced Report Writer from a jQuery-driven UI to React TS, reducing UI load time by 90% and significantly improving user experience.
- Implemented application-level security controls on 20+ vulnerable areas to mitigate OWASP Top 10 vulnerabilities, including SQL Injection, Cross-Site Scripting, and BAC, reducing client security exposure.
- Built and automated end-to-end test suites using C# and Selenium WebDriver, reducing manual testing time by 99%, improving test accuracy, and significantly accelerating release cycles.

Paycom Payroll LLC – Software Developer Intern | *Irving, TX*   *May 2024 – Aug 2024*

- Developed an overview dashboard utilizing React JS, SQL, and PHP for the company's learning management system, consolidating employee training metrics and course evaluations into a single view.
- Built statistics and reporting tools to track course progress, completion, and pass rates, enabling managers to identify bottlenecks faster and improve training follow-up through data-driven insights.

Paycom Payroll LLC – Software Developer Intern | *Grapevine, TX*   *May 2022 – Aug 2022*

- Developed an Android application using Kotlin and Jetpack Compose within a cross-platform system to centralize, transform, and visualize health data from multiple sources and manage health events.
- Reduced the workload of gym staffs down from 2-4 weeks to some seconds by replacing manual intake with automated data streaming.

Nemalife Inc. – Data Analyst Intern | *Lubbock, TX*   *Jan 2022 – May 2022*

- Utilized NemaStudio software to identify, track, and categorize C. elegans nematodes in challenging video backgrounds, achieving 99% accuracy in live animal counts, and behavioral measurements.
- Developed an annotation process, conducted quality control analysis, improved the user interface for better usability, and contributed to software optimization.

UTSW Medical Center – Student Researcher | *Dallas, TX*   *Feb 2020 – May 2020*

- Completed research about Glioblastoma Cancer in 12 weeks and presented in a virtual conference for 200+ entrepreneurs, professors, and students from 10+ countries.

PROJECTS AND PUBLICATIONS

Publication - Presented at IEEE ICKII 2024, Published in MDPI   *Mar 2025*

- "Enhanced Comparative Analysis of Pretrained and Custom Deep Convolutional Neural Networks for Galaxy Morphology Classification." *Engineering Proceedings*, 89(1):36, 2025.

Power Flower Website – Full-stack   *Jan 2023 – May 2023*

- **Technologies Used**: HTML, CSS, Bootstrap, Angular, Node.js, MongoDB, AWS.
- **Role**: Team lead of a group of 9 students, established project goals, wrote specs and designed task tickets, conducted pair programming with teammates. Worked on frontend and built API endpoints.
- **Description**: Admins can add/delete flower items, manage database system of revenue, profit. Users can see the list of flowers, search by flower names, prices, or categories, add flowers to cart and check out.

EDUCATION

Kent State University - Master of Computer Science | GPA: 3.97   *Aug 2023 - Dec 2024*

Texas Tech University - Bachelor of Computer Science | GPA: 3.95   *Aug 2020 – May 2023*