

# TRUC NGUYEN

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## EDUCATION

**DePauw University** – Greencastle, IN

**Bachelor of Science in Computer Science and Economics** | GPA: 3.95 | Graduate: December 2024

## SKILLS

- **Languages:** C++, C#, Java, Python, HTML, CSS, JavaScript, Kotlin
- **Frameworks:** REST API, Bootstrap, Angular, Three.js, ReactJs, Google Cloud Dialog Flow
- **Tools:** Azure, AWS, Linux, Git, VSCode, Eclipse, Replit, InstaVR

## EXPERIENCE

**MICROSOFT** **Software Engineer Intern** **Washington | May-August 2023**

- **Technologies:** REST API, C++, C#, .NET 6, Linux, Python, Shell Script
- Shorten the 3-4 business days procedure to minutes in Azure Key Vault service to transfer cryptographic information and recover from disaster by designing and developing end-to-end security REST APIs with dSTS-based authorization
- Established token generation from client's certificate and updated Azure Key Management with the latest Microsoft authentication library to eliminate engineer effort in token acquisition and maintenance for Azure-protected web APIs
- Enabled REST API automation test in the Microsoft CI/CD pipeline by creating a test script to detect problematic changes on dev machine, Dogfood

**PEAKMIND INC** **Software Engineer Intern** **Indiana | May-August 2023**

- Analyzed the database collected from 20 companies using Apache Superset, Python, and SQL to detect mental health problems tendencies faced by employees
- Created Virtual Reality web-based using InstaVR to improve employees' mental health solutions tested on 150 users

**DEPAUW UNIVERSITY** **Teaching Assistant** **Indiana | January 2022 - Present**

- Hosted 6 office hours, attended 2 class sessions a week to give customized guidance for 60+ students in the JAVA CS class

## PERSONAL PROJECT

**Robinhood Social Good Hackathon** **September 2022**

- In a team of 3, within 48 hours built an Android application applying blockchains to facilitate raw data authentication issues and solve the salary inequality problem within a company
- Led end-to-end development effort, utilizing Kotlin for consistent front-end design, and collaborating on Algorand Smart Contract integration for atomic transaction transfer.

**Girls Hack Hackathon - Project Leader** | [Demo](#) **March 2022**

- Led a team of 3 to build We Aid Ukraine - a web application to help Ukrainians find resources and connect with the nearby telehealth, SOS, and military services and won 3rd prize.
- Created chatbot using Google Cloud and Dialogflow, visualized location data using Google Maps API, and integrated Google Translate API to support people who do not speak English

**Artificial Intelligence to play Flappy Bird** **June 2022**

- Built a version of Flappy Bird using Pygame
- Developed an evolutionary algorithm with Neural Networks and NEAT, which taught itself to play the game with a success rate of 100% after 2 bird generations

## ACTIVITIES

**DEPAUW WOMEN IN COMPUTER SCIENCE - President** **May 2022 - Present**

- Engaged female STEM majors with technical and social events, media content, resulted in 200% increase in participation.

**GIRLS WHO CODE - Leadership Academy Fellow** **July 2023 - Present**

- Engaged in a 65-member cohort to be trained in project management, leadership, and technical skills
- Worked with GWC's partner company's employees to build an Android App with a commitment of up to 15 hours/week.

## AWARD

- **Grace Hopper Scholar 2023, TAPIA scholarship recipient 2022**
- **Winner: The Pitch - TechPoints 2022:** In a team of 9, pitch a solution for boosting the tech jobs industry in Indiana