Tran Anh Khoa Huynh

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EDUCATION

The University of Texas at Dallas, TX Graduation: December 2026
Master of Science in Cybersecurity, GPA: 3.73 Dallas, TX
The University of Texas at Dallas, Erik Jonsson School of Engineering and Computer Science Expected Graduation: December 2024
Bachelor of Science in Computer Science, GPA: 3.73 Dallas, TX

SKILLS

- **Programming Languages**: Assembly, C, C++, Java, JavaScript, Python, Prolog, HTML
- **Operating Systems & Frameworks:** Windows, Linux, Pandas, Anaconda, Angular, .Net, Django.
- **Software Tools**: Anaconda, Microsoft Office(Word,Excel,Outlook,PowerPoint, Google Workspace).

PROFESSIONAL WORK EXPERIENCE

Cybersecurity Intern (Virtual) | JPMorgan Chase & Co. June 2024 - September 2024
- Conducted detailed analysis of mobile money transactions to identify and flag fraudulent activities, leveraging data science techniques to improve fraud detection systems.
- Applied security fundamentals using OWASP Top 10 and Django security practices to enhance the security of web applications.
- Built and trained a machine learning model using scikit-learn to classify emails as spam or ham, improving email security measures.
- Designed a system to enforce least privilege access control, reducing organizational risk by limiting user roles.

PROJECTS

Web-Based UI for CHP Feasibility Tool - Caterpillar September 2024
- Developed a web-based UI for a CHP feasibility tool, optimizing product recommendations based on cost, operating cost, or emissions.
- Integrated APIs to connect Caterpillar tools and EIA databases. • Designed an intuitive UX with PDF report downloads and ensured responsive design for PC and mobile.
- Provisioned software and documentation for inclusion in the Caterpillar Digital suite, gaining skills in Logical Technical Architecture (LTA) development and requirements management.

Exploring Multiple Processes and IPC on OS - C++ Program March 2024
- Developed a multi-process operating system simulation, employing fork() and IPC via pipes for process communication.
- Implemented interrupt handling with a three-signal system, ensuring system stability and responsiveness.
- Optimized stack operations for efficient memory management, demonstrating strong algorithmic skills.
- Integrated system calls manage user and kernel modes, enforcing access restrictions, preventing unauthorized actions, and enhancing system stability while safeguarding sensitive resources.

Binary Search Tree Implementation - Java Program October 2023
- Developed a Binary Search Tree (BST) with efficient data retrieval and storage capabilities, employing tree traversal algorithms for sorted tree visualization.
- Implemented optimized algorithms for key BST operations, including insertion, deletion, and search, while creating dynamic nodes to enable real-time updates to the tree's content, showcasing strong algorithmic problem-solving skills.
- Expanded the basic BST functionality by adding advanced features such as counting nodes, checking for a full tree, comparing tree structures, determining tree equality, creating copies, generating mirror images, and executing tree rotations.

Networked Multiplayer Game Implementation - C Program April 2023
- Created both Word Guessing (Hang Man) and Number Guessing games where clients connected to the server to participate in guessing challenges and offered feedback on each guess.
- Developed server and client applications in C using socket programming for seamless network communication over TCP/IP.
- Ensured real-time feedback to players, maintaining data integrity, security, and efficient network communication between the server and clients.

CERTIFICATIONS & LICENSES

- **Google Cybersecurity Professional Certificate** | Google July 2024
- **Amazon Web Services Cloud Practitioner Certificate** | Amazon April 2024
- **Career Essentials in Data Analysis by Microsoft and LinkedIn** | Linkedln & Microsoft February 2024
- **Career Essentials in Cybersecurity by Microsoft and LinkedIn** | Linkedln & Microsoft February 2024

AWARDS & HONORS

- **Phi Theta Kappa Academic Excellence Scholarship** | Phi Theta Kappa Honor Society - University of Texas at Dallas January 2023
- **Comet Transfer Academic Excellence Scholarship** | GPA: 3.9 - University of Texas at Dallas January 2023
- **State Farm STEM Scholarship** | Dallas College Foundation June 2022