Dinh Pham

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Portfolio: https://tomp-portfolio.vercel.app/

Education

- **The University of Texas at Dallas** — Dallas, TX
  Bachelor of Science in Computer Science; GPA: 3.9 — *2022 - 2024*
- **Dallas Community College** — Dalls, TX
  Associate of Science in Computer Science; GPA: 3.9 — *2020 - 2022*

Projects

- **3D Portfolio Website**: Developed an interactive 3D portfolio using ThreeJS, React Three Fiber, TailwindCSS, and Framer Motion. Enhanced visual appeal and user experience with customized 3D models and lighting setups. Implemented Higher Order Components (HOCs) for code reusability and scalability. Integrated a responsive contact form with email functionality, improving site performance.
- **Caterpillar Gas Engine CHP Feasibility Tool**: Developed a web-based UI for a CHP feasibility tool. Integrated APIs to connect Caterpillar tools and EIA databases. Created a stand-alone package for recommending CHP solutions optimized for cost or emissions. Designed an intuitive UX with PDF report download. Provisioned software/documentation for the Caterpillar Digital suite.
- **Cybersecurity Intrusion Detection System**: Designed and implemented a real-time intrusion detection system using Random Forest and Support Vector Machine algorithms in Python for a company with **10,000 daily users**. The system was able to detect and prevent cyber threats with an accuracy of **90%**, significantly improving the security posture of the network.
- **Healthcare Data Analysis**: Led a team to develop a data analysis platform for a healthcare company with **20 hospitals** using Python and SQL. The platform processed and analyzed large datasets to provide insights into patient health trends and hospital performance. This resulted in a **15% improvement in patient care efficiency** and a **10% reduction in operational costs**.
- **Autonomous Vehicle Navigation System**: Built a navigation system for an autonomous vehicle as part of a capstone project. The system used sensor data and Reinforcement Learning algorithms to safely navigate the vehicle in a simulated environment, reducing navigation errors by **25%**.

Work Experience

- **Cybersecurity Intern (Virtual) — JPMorgan Chase & Co.** — June 2024 – August 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.

Skills

- **Languages**: Java, Python, C, C++, SQL, JavaScript, HTML
- **Frameworks**: Flask, Django, Spring, React Three Fiber, Angular, .NET
- **Tools**: Git, PyCharm, VS Code, Visual Studio, IntelliJ, Eclipse, Gradle, MySQL, ThreeJS, TailwindCSS

Certifications & Licenses

- **Google Cybersecurity Professional Certificate**
- **Career Essentials in Cybersecurity** by Microsoft and LinkedIn
- **Career Essentials in Generative AI** by Microsoft and LinkedIn