Duong **Dinh**

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EXPERIENCE

Sharktech Inc. @ *System Admin & Cybersecurity*   July 2023 - Aug 2023
Software and Network Engineer Intern • Las Vegas, Nevada — *Javascript, SQL, PHP*
- Shadowed the CEO for strategic decision-making and leadership insights.
- Developed and designed system calculator algorithm using **Javascript**, increased sales and usability by **10%**
- Developed and deployed **honeypots** to attract and monitor potential attackers, enhancing overall security measures and identifying vulnerabilities.
- Engaged in learning and working on **Intrusion Detection Systems (IDS)**

Purdue Sigma Nu.   Jan 2022 – Nov 2022
PR director • West Lafayette, Indiana — *Javascript*
- Developed a **JavaScript**-based Snapchat filter that garnered **7,000 views** and **3,000 shares** in three days, leading to an **80%** surge in event popularity.
- Collaborated with head of committee to manage all social media platforms.

PROJECTS

Neural network game development — *Java, Javafx, Swing*   ⚙ *frychicken.github.io/blog/Math-in-simulation/*
- Engineered a **neural network** library with **java** using **sigmoid activation function**, **feedforward** and **backpropagation** techniques.
- Integrated the neural network into a self-developed game resembling Flappy Bird, enabling the game to autonomously learn and adapt its survival and gameplay strategies.

Music App — *C, Python, GTK*   ⚙ *github.com/frychicken/OffBrandMusic*
- Spearheaded development and implementation of a music app written in **C** and **python** with **GTK** and **libcurl.**
- Built JSON parser from scratch, allowing seamless retrieval of **JSON** data from the Genius API. This project was prominently **showcased** in a programming class.

Discord Entertainment Bot — *NodeJS, Javascript, DiscordJS*   ⚙ *github.com/frychicken/UselessBot*
- Built both **frontend** with **CSS** and **JavaScript** and **backend** with **Node.js**, which accounted for **the 40% increase in growth and interaction** on the discord server.
- Implemented user data storage and developed a virtual banking system with advanced learning capabilities.

Messaging App — *Java, Javafx, Swing*
- Lead a team of 5, designed and programmed a messaging application using **java** from the ground up with **git** for source control.
- Developed the server using **socket connection** with machine's **IP** address and **TCP** port.

AWARDS/CERTIFICATES

- Alpha Lambda Delta Phi Eta Sigma Honor Society
- EBEC Programming in Python

SKILLS

Languages Java, PHP, SQL, Javascript, Swift, C#, C++, C, Python, PL/SQL

Tools Windows Server, WHMCS, Virtuozzo, VMWare, ESXI, Wireshark, Wordpress, Nodejs, Openstack, Xcode, Linux, Adobe Suite

Cybersecurity SQL injection, Cryptography, Linux Access Control, Remote access VPN, Site-to-Site VPN

Database Proficient in Views, Trigger, Function, Procedure, TCL, DQL, DDL, DML, DCL and Design and Normalization of a database table as well as database architecture

Other Experienced with Agile and Scrum project management, Networking (TCP/IP, Ethernet, Cisco IOS, DNS, DHCP, STP, OSPF), system automation with Windows Server, and Windows Enterprise System Administration (Roaming profiles, Network shares, GPO's, DNS, Active Directory)

EDUCATION

Purdue University   Aug 2020 - Dec 2024
Bachelor of Science in Computer & Information Tech, Minor in Art and Design
Coursework System Administration, Information Tech Architecture, Cybersecurity Fundamentals, Object-Oriented Programming, Network Engineering Fundamentals, Data Communication And Networking, Database Programming, System Programming, Systems Analysis And Design Methods
Concentration Networking and Software engineering