

# 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

- 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.

June 2022 – Aug 2022

PR director • West Lafayette, Indiana — Javascript

- Developed a **JavaScript**-based Snapchat filter that garnered **7,000 views** and **3,000 shares** in just 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/](https://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](https://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](https://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

### Purdue University

- 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 - May 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