

# Duong Dinh

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frychicken.github.io

## EDUCATION

### Purdue University. (GPA: 3.6)

Aug 2020 - May 2024

Bachelor of Science in Computer & Information Tech, Minor in Art and Design

**Concentration** Networking/Cybersecurity and Software engineering

## EXPERIENCE

### Sharktech Inc.

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%**
- Deployed **honeypots** to attract and monitor potential attackers, enhancing overall security measures and identifying vulnerabilities, identified **5000+ attacks**, **50+ attackers** and **5+ known attackers**
- Engaged in learning and working on **Intrusion Detection Systems (IDS)** and **SMTP** by writing a new get quote system, increased usability by **20%**

### 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, gained **400+ followers**

## PROJECTS

### 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 **TCP socket** connection with machine's **IP** address

### 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**, gained **10+ users** on a discord server
- Implemented user data storage and developed a virtual banking system with learning capabilities

### 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 CNIT315 programming class

### 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

## 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, Kubernetes, Docker

**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)