# VISHNU VIJAYAN

## OBJECTIVE

To obtain a software engineering internship.in summer.

## EDUCATION

Purdue University, West Lafayette, IN
Bachelor of Science in Computer Science (GPA: 3.81) (May 2020)

## PROFESSIONAL EXPERIENCE

**Lead 3-D artist of the Crossfire 2.0 mod** (January 2014 – October 2015)

- Headed the 3-D modelling and texturing wing of the Crossfire 2.0 mod for Freelancer
- Created models and textures for numerous ships, space stations and solar objects
- Remastered various exisiting textures and increased their resolutions

**Web Developer for different companies/individuals** (February 2014 – October 2015)

- Developed the website www.nvglasswork.com
- Updated and maintained the website www.sishmun.org for Sishya School's 2015 Model United Nation conference

## PERSONAL PROJECTS

**AI Driven Tic-Tac-Toe Game** (November 2015)

- Terminal based Tic-Tac-Toe game in Java using the mini-max AI algorithm
- Multiplayer and single player support. In single player, the AI will either win or draw

**Cryptonite - Decentralized Password Manager** (October 2016)

Coded the back-end client in Python which:

- Encrypts the database using AES 256, SHA 256, and a custom procedural generation algorithm.
- Syncs the database across devices over a local network using QR codes.
- Implements dual layer security which prevents brute-forcing database access.

**SPEXY - Remote Computer Monitoring Suite** (September 2016)

Coded a cross-platform client for SPEXY in Python:

- Monitor CPU, RAM, hard drive and network info from anywhere in real time
- View and kill running processes

**Tracket - Laptop Tracking System** (October 2016)

Coded a windows client for Tracket in Python:

- Locate and take screenshots and webcam photos of the person using it
- Send text to speech messages view the filesystem, and retrieve files
- Encrypt and decrypt the user directory, log keystrokes with a keylogger

**BigDoc - Preventive Healthcare Algorithm** (November 2016)

Created and coded a machine learning algorithm in Python:

- Process medical data gathered from a wearable and predict abnormalities by comparing the user's datasets with that of the average healthy person in the area.
- Store gathered data in a database to constantly improve the quality of predictions

**FreeClicker - Free Alternative to iClickers** (November 2016)

Coded a decentralized multi-platform base station server in Java for the FreeClicker system - a free alternative to expensive iClickers for students and teachers.

## KEY SKILLS

- Java
- Javascript
- Python
- 3-D modelling
- Photoshop

## OTHER SKILLS

- HTML
- CSS
- NodeJS, SocketIO
- Artificial intelligence algorithms
- Recording instruments
- Mixing and mastering audio

## FAMILIAR TOOLS

- Adobe Photoshop
- Ubuntu
- Cockos Reaper
- Google SketchUp

## ABOUT ME

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