

# Kyle Phan

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## EDUCATION

University of Notre Dame, Notre Dame, IN

Expected May 2025

**Major and GPA:** B.S. in Computer Science, 3.85

**Relevant Courses:** Systems Programming, Data Structures, Discrete Mathematics, Logic Design, Linear Algebra and Differential Equations, Programming for Video Game Development

## EXPERIENCE

iCapital Network

June 2023 – August 2023

*Software Engineering Intern*

- Building a full stack internal tool with Ruby on Rails and React that streamlines Rake task management for the entire development team, allowing product managers to manage database changes from a dashboard
- Designing and implementing a suite of REST endpoints and testing them with Postman API, managing state with Redux, and writing RSpec unit tests to ensure validity of backend code
- Writing Rake tasks to configure permissions and ensure that access to the tool is restricted to specific users within organization
- Collaborating with product managers on wireframe

Colonist.io

August 2022 – September 2022

*Frontend Developer Intern*

- Colonist.io is a popular online multiplayer game based on the board game Settlers of Catan, over 10,000 users daily
- Built an internal DevOps tool that automatically deletes GitHub branches when pull requests are closed, used by the entire team
- Edited UI/UX of game button and fixed various frontend bugs for Cities and Knights game mode used by thousands of players using TypeScript and CSS

EPOCH Lab

March 2023 – Present

*Undergraduate Research Assistant*

- Research lab dedicated to promoting adolescent online safety through user-centered design, focused on HCI
- Maintenance of admin dashboard for lab's survey application, collect teen survey responses regarding online safety

Lab for Big Data Methodology

March 2022 – August 2022

*Undergraduate Research Assistant*

- Lab goal is to develop better statistical methods and software in the areas of education, management, health, and psychology
- Utilize HTML/JavaScript to create a better UI experience for a web application that allows users to find trends between two objects

## PROJECTS

Workout Guru

June 2022 – July 2022

[workoutguru.onrender.com](https://workoutguru.onrender.com)

- Built a website that allows users to create personalized workouts with a Tinder-inspired system to determine which exercises are added to the workout, users also have access to a catalog of exercises that they can do and learn more about, 500+ individual users
- Tech Stack: HTML/CSS/JavaScript frontend, Python Django backend, PostgreSQL database, and AWS S3 for static file storage

Egyptian Ratslap

March 2023

<https://simmer.io/@kphan5/egyptian-war>

- Built an online version of Egyptian War/Ratslap in C# and Unity, utilized Unity prefabs to instantiate and duplicate card objects
- Used Unity coroutines for improved performance and parallelization to implement a bot that serves as the opposing player

Battle for LA

August 2022

<https://kylephan5.github.io/battleforla>

- Built a 2D arcade basketball single player game where the user controls the LA Clippers and the enemy is the Lakers
- Tech Stack: JavaScript full-stack

Sol Solutions | Project: Horizon

March 2022

<https://sol-solutions.vercel.app/>

- Created a website with three other individuals that allow residents of Indiana to see how much it would save them to switch to solar energy based on their monthly electric bill and the number of solar panels desired
- Tech Stack: HTML/CSS/JavaScript frontend, Python Flask backend

## ACTIVITIES

CS4Good

*Project Lead for BeFriendED*

February 2023 – May 2023

- Work with BeFriendED, a nonprofit dedicated to helping those struggling with eating disorders find a community
- Building a chatting feature using Node.js, Express.js, and socket.io along with a forum using Django REST framework
- Collaborated with 4 other team members, assisted in learning of Django throughout the project

## SKILLS

Programming Languages: Python, HTML, CSS, JavaScript, C, MATLAB, TypeScript, C#, Swift, Ruby

Frameworks: Django, Flask, Bootstrap, Express.js, React, Rails

Miscellaneous: Amazon Web Services S3, Git, Node.js, MongoDB, PostgreSQL, Unity, Jira, Kubernetes, Docker