Kasper Lau

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OBJECTIVES

Software Engineering Internship Position **(Pay is Optional)**

EDUCATION

Ohio State University   **Columbus, OH**
College of Engineering   GPA: 3.92/4.00
Major: Computer Science and Engineering, Minor in Mathematics   Dean's List

PROJECT EXPERIENCE

Polynomial CAS
- Developed a Computer Algebra System to perform calculations with polynomials
- Modeled nth-degree univariate polynomials as Java objects
- Designed and implemented algorithms to perform arithmetic and calculus
- Language used: JAVA

Personal Portfolio Website ([Kaspie Codes v1.0](#))
- Portfolio showcases skills and additional projects
- Website created from scratch and hosted in-house on a Raspberry Pi-5
- Raspberry Pi-5 host server runs Ubuntu server edition with Nginx installed
- Language used: HTML/CSS/JS

Dinosaur Game (adapted from Chrome)
- Implemented tick system for registering user input, loading panels, and supporting fluid animation
- Handles falling objects in 2D with collisions
- Enhanced the original game with menu and scoreboard
- Drew and assembled a spritesheet with 750+ panels with pixel editing software
- Language: MATLAB

CAMPUS INVOLVEMENT

- Club Swimming, Club Table Tennis
- Hack OH/IO (Ohio State Hackathon program)

SKILLS/ INTERESTS

Skills: Java, C, x86-64 Asm, MATLAB, HTML/CSS/JS , FPGA Design (Quartus Prime), CAD (Solidworks), Excel
Interests: Cyber Security, Computer Systems, Machine Learning, Web Development