Luke Halasy

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EDUCATION

Purdue University - West Lafayette - ***Computer Science*** *(B.S)* AUGUST 2018 - MAY 2022

- GPA: **3.85** (Dean's List Every Semester)
- Concentrations: Software Engineering, Systems Programming, and Machine Intelligence
- Coursework has included: **Data Structures and Algorithms**, **Software Engineering**, Computer Architecture, Systems Programming, Operating Systems

SKILLS

Languages: Python, C, Java, JavaScript, R

Libraries: PyQt, Django, React, RShiny

Technologies: Docker, MongoDB, Node.js

Other: Agile, Design Patterns, Git

WORK EXPERIENCE

Indiana Digital Crossroads Project With Cummins - *Full Stack Engineering Intern* MAY 2021 - DECEMBER 2021

- Built API endpoint, using Python and Django, that is utilized in a dashboard to screen potential repair projects for adequate data quantity and prioritize projects based on financial value to maximize repair value.
- Enhanced user experience across the frontend, built using React.js, by implementing windowing logic in large list components and designing API calls to be asynchronous, increasing website responsiveness by 90%, and decreasing initial load time by 50%.
- Engineered React component that enables Cummins dashboard users to save and load their selected project screening filters, saving time for users.

Purdue Data Mine - *Undergraduate Data Science Researcher* AUGUST 2020 - MAY 2021

- Created RShiny app using JavaScript and R that enables Purdue Athletics to visualize ticket sales data through an interactive view of the football stadium, making it significantly easier for the department to analyze and view over 50,000 ticket sales for every home football game.
- Developed Python script to convert department ticket sale data, given in .txt format, into a dictionary data type, enabling ease of ticket sale analysis

MINED XAI - *Data Visualization Intern* MAY 2021 - AUGUST 2021

- Designed custom modules for circle packing charts, line graphs, pie charts, and scatter plots, using PyQt and Python, that are utilized in code across the company, offering employees quick and customizable graphics for displaying data.
- Developed a Python function for downloading images of graphs on the company dashboard, saving time for users.

PROJECTS

eProtect (eprotect.app) JANUARY 2021 - MAY 2021

- Built a web application, working under the Scrum Agile Methodology performing the role of Scrum Master, using Node.js and MongoDB that enables users to create disposable emails to protect their privacy online.

Music To Listen To JANUARY 2020

- Created a web application using React, Next.js, and MongoDB that provides users with a creative means for keeping track of what albums they hope to listen to and past albums they've heard.

CAMPUS INVOLVEMENT

Purdue Hackers - *Web Developer* OCTOBER 2018 - MAY 2020

- Implemented integration and user testing, using Jest, that improved the security and quality of the club website's backend server.