Christopher Yung

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EDUCATION

Purdue University, West Lafayette, Indiana   MAY 2023
- Bachelor of Science in Computer Science with a concentration in Software Engineering
- Graduating with Certificate in Entrepreneurship and Innovation
- **Relevant coursework:** Object-Oriented Programming (Java), Programming in C, Discrete Mathematics, Data Structures and Algorithms, Systems Programming, Introduction to Algorithms, Data Mining and Machine Learning, Web Application Development, Multivariate Calculus, Linear Algebra

SKILLS

- **Computer Programming**: JavaScript, Python, C, C++, Java, HTML, CSS, Node.js, React, Bootstrap

WORK EXPERIENCE

FORCES, West Lafayette, Indiana   *Junior Fellow* | MAY 2021 - AUGUST 2021
- Sole programmer on 73 Easting web application with FORCES, a Purdue University research program working in collaboration with Discovery Park and the Institute for Global Security and Defence Innovation
- Provided visual aid on the analysis of the Battle of 73 Easting by building a web application with React and Node.js with a Bootstrap-React framework and hosting on Github Pages
- Developed a series of wireframes to produce the most effective layout for displaying relevant information
- Used SheetJS to parse a database full of data aggregated from dozens of military and historical sources
- Constructed a visualization of war movements using Leaflet and other third-party Leaflet plugins, allowing me to animate troops over an interactive map using their positional data stored in the database

Berkeley Engineering and Research Inc., Berkeley, California   *Summer Intern* | MAY 2017 - JULY 2017
- Worked with about half a dozen people for BEAR, a forensic engineering company that uses science and technology to investigate evidence for court cases and other projects
- Measured gas levels in gasoline canisters for a case involving exploding gas cans
- Created enlarged 3-D models using Fusion 360 and 3-D printers with precision tolerance moving pieces for a case involving a malfunctioning ignition mechanism
- Tested stress tolerances of blenders to the point of explosive failure for a case involving home blenders

PROJECTS

Spotistics - https://yung4.github.io/spotistics/   JULY 2020
- Sole programmer building a client-side React web application that analyzes a user's Spotify listening habits
- Requests OAuth access token from Spotify API via implicit grant flow for authorization to use Spotify's data
- Queries the Spotify API using AJAX and aggregates the returned JSON data for analysis
- Utilized the ChartJS library to animate graphs to display user's playlists statistics visually
- React application written in JavaScript using the Bootstrap-React framework and deployed via Github Pages

Personal Website - https://chrisyung.github.io   2017 - PRESENT
- Challenged myself to program a personal website using only HTML and CSS, without Bootstrap styling

Sustainably Dressed, Boilermake VII - https://github.com/Dan-Yell-Nuwin/ShirtsForLess   JANUARY 2020
- Scraped clothing websites using Beautiful Soup for listings for second hand clothing
- Automatically aggregates and outputs the scraped data into a single webpage for easy access

Void Therapy, Hello World - https://github.com/yung4/HelloWorld-2-the-squeakquel   SEPTEMBER 2019
- Developed an Android and iOS application using Android Studio in Dart and Flutter
- Designed and animated sprites, implemented the main page, sidebar, and general layout