Roberto Herman

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EDUCATION

San Francisco State University   San Francisco, CA
BS Computer Science *GPA: 3.94*   Expected – May 2021

PROJECTS

Photify (*JavaScript, Node.js, SQLite, Express, HTML, CSS*)   https://photify-webapp.herokuapp.com/
Developed a photo sharing web app where the user creates an account, logs in, and is able to upload pictures and comment on other user's photos. Account information, image data, and comments are stored in an SQL database. Collaborated with a partner for this project (3 months)

A/B Testing Serverless Web App (*JavaScript, Cloudflare*)   https://cloudflare-intern-app-fs.rherman.workers.dev/
The web app routes the client to one of two very similar web pages, Ying, or Yang. Depending on which page the client lands on, they're assigned a group in the backend, and will be directed to that same page for the rest of the month (unless client deletes cookies or browses in private mode).

Alien Invasion (*Python, pygame*)   youtu.be/8O2TZ5ukDS0
Created an Alien Invasion game similar to Galaga (1981). The player controls a spaceship, shooting alien ships that come from the top and move down towards your ship, speeding up every level. Lives, current score, high score, and level are displayed.

Generating and Vizualizing Data (*Python, matplotlib, pygal, pandas*)   bit.ly/GHproj1
Assembled a set of programs that visualize data obtained from various sources and in different formats. Used matplotlib to visualize data in a window, and pygal to generate SVG files for interactivity. Data was extracted from CSV files as well as JSON responses from the GitHub API.

EXPERIENCE

United States Air Force   Panama City, FL
Avionics Systems Specialist   Aug 2009 – Dec 2015

- Managed up to 5 avionics maintenance teams daily, coordinating aircraft repairs, resulting in thousands of sorties flown as scheduled throughout the year for pilot training and combat missions within U.S. and deployed locations.
- Trained dozens of new airmen/airwomen on safe maintenance practices, keeping personnel injuries to a minimum, saving lives, limbs, and millions of dollars in damage to aircraft and other equipment.
- Troubleshot, inspected, removed, installed, repaired, modified, and operated aircraft avionics and electrical (A&E) systems, components, and associated support equipment.

SKILLS

Languages & Frameworks/Libraries: Java (Spark), C++, JavaScript (Node, React), HTML, CSS, Python
Databases: MySQL, SQLite, PostgreSQL, MongoDB

INTERESTS & ACTIVITIES

Developer Student Club (DSC)   August 2019 – Present
Collaborated in workshops where we learned to use Google services such as the Google Cloud Platform (GCP).

Association for Computing Machinery (ACM)   August 2019 – Present
Member of ACM at SFSU, where students get together and network, brainstorm project ideas, listen to and meet with guest speakers from local tech companies, and participate in hackathons such as SF Hacks.

President's Leadership Fellows Program (PLFP)   Spring 2019
Participated in weekly leadership workshops to develop critical career-based soft skills. We also trained in persuasive communication styles and utilizing emotional intelligence in the workplace.