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Crista Falk | cristafalk@gmail.com

SUMMARY | SENIOR AT LAKE CITY HIGH SCHOOL, AND ASPIRING SOFTWARE ENGINEER

A goal-oriented student, open to opportunities which allow me to utilize my problem-solving skills to further develop my abilities in the field of computer science. Combining leadership experiences in programming, musical performance, and community service to contribute hard work and positive energy.

WORK EXPERIENCE

Tech Intern, Virtual Technology Labs

June '18 – August '18

- + Scripted web scraping applications to discover the most effective crowdsourcing and money raising techniques for a VR animated film called the Goldfish Project.
- + Worked Rokoko motion capture Smart Suits and software, creating instructional presentations to teach calibration and use.
- + Consulted at local VR lab and led Vive gaming station at events such as the Gizmotion parade and fair.
- + Rendered 3D visuals in WebGL and ThreeJS to visualize hillslopes for the Erosion Risk Management Tool (ERMIT) and Water Erosion Prediction Project (WEPP).
- + Developed front-end website and back-end REST API (using Flask, Selenium, Angular, and BeautifulSoup) to predict sediment delivery after wildfires.

Software Engineering Intern, ExtraTech Systems

June '17 – September '17

- + Developed dynamic web app interfaces using HTML/CSS/AngularJS.
- + Tested motion control firmware and CAD/CAM software updates.
- + Modified XMD files and updated machine parameters concerning material, cut, and job processes.
- + Designed human-machine interfaces for LCD keypad controllers and implemented common CNC job macros (i.e. cuts, shapes, patterns) into HMLs.

Q'emiln Park Assistant, Post Falls Parks and Recreation

Summer '16 and '17

- + Managed event tabs while taking charge of paid parking transactions.
- + Answered questions regarding parking, boating, events, hiking trails, and park rules.
- + Provided setup and assistance at City of Post Falls events (marathons, street fairs, Post Falls Days).

Volunteer, Coeur d'Alene Library

January '15 – Present

- + Set up, supervised, and cleaned up after library events (e.g. book club, creative writing club, movie showings, crafts).
- + Helped maintain tech within the library makerspace.
- + Founding member of the Teen Advisory Board.

EDUCATION

Lake City High School

High School Diploma

September '15 – June '19

Honor Roll; Academic Letterer

Additional STEM Coursework

Independent Study: Principles of Electronics (Processing, C++). Independent Study: Data Structures and Algorithms (Python). AFA CyberCamp, Java Coding Workshop, Intro to Modern Liquid Chromatography.

SKILLS

- + Proficient in Conversational French (Three years of HS and college education).
- + Computer Programming Languages:
 - o **Java**, First Robotics and Android Development.
 - o **CSS/HTML and Javascript** (MEAN stack), Web Development.
 - Experience with Angular (2.0 and 4.0), Sass, jQuery, and ExpressJS.
 - Familiarity with Bootstrap and Flexbox layout.
 - Experience in creating animated, web-based 2D/3D graphics in three.js.
 - o **Python**, First Robotics, Tkinter GUI toolkit, and backend services (Django, Flask).
 - o **Lua**, Scripting, app and game development (Corona framework).

EXTRACURRICULARS

- + Girl Scout (Troop 3003 President, Bronze and Silver Awards). **'06 - present**
- + Educational Talent Search/TRIO college prep. **'13 - present**
- + Saxophone, oboe, and English horn (band secretary, letterer). **'15 - present**
- + LCHS Scholastic Team (Varsity Captain, letterer). **'15 - present**
- + Girls Who Code Organization alumna and mentor. **'15 - '18**
- + TeraViks FIRST Robotics (Head Programmer, Spirit of the Team Award). **'16 - present**
- + National Honor Society (President). **'18 - present**

AWARDS

- + 1st in local Voice of Democracy 2016 VFW Audio Essay contest.
- + 2nd in state Solo and Ensemble competition for woodwind ensemble.
- + AP Scholar with Distinction.
- + National Honorable Mention of the 2018 NCWIT Award for Aspirations in Computing.
- + Idaho Affiliate Award Winner of the 2018 NCWIT Award for Aspirations in Computing.
- + 2018 QuestBridge College Prep Scholar; Quest For Excellence USA Award Recipient.