SOPHIA **JUNG**

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2020 Graduate from the University of Washington Physics Department with a major in Applied Physics. I am interested in exploring opportunities that combine physics with other fields of study, such as medicine or energy research. I am also currently studying full stack web development with Trilogy Education to further expand my skill set. I have experience with modeling programming from my academics at university and hope to gain development experience from my current coursework.

CONTACT

- **GITHUB:** www.github.com/sophia2798
- **LINKEDIN:** www.linkedin.com/in/sophia-jung-7614991b5
- **PORTFOLIO:** https://sophia2798.github.io/responsive_portfolio/

EXPERIENCE

2015 - 2016

INTERNSHIP, GLOBAL GOOD

Internship held at Global Good—a Bill and Melinda Gates Foundation and Intellectual Ventures affiliated company. Internship was found independently during Senior year of high school. Global Good and its internship program focused on the invention, development, and deployment of products that aid populations in low-resource settings. Such products could address malnutrition, malaria and other disease diagnosis, pediatric tuberculosis, cold chain management, or waste management. Intern responsibilities included organizational duties, company representation in meetings, scheduling, independent research, and independent literature review to keep updated on current findings. · Specific Projects: Use of 3D scanners to diagnose malnutrition, use of biomimicry/transpiration to address human waste management.

EDUCATION

2012 - 2016

HIGH SCHOOL, INTERLAKE HIGH SCHOOL (BELLEVUE)

- School Programs: Full IB/AP curriculum (second year of IB curriculum completed at the end of Junior year; IB diploma received during Senior year)
- GPA: 3.95
- Honors and Awards: AP Scholar (2015), AP Scholar with Distinction (2016), National Merit Scholarship Finalist (2016)

2016 - 2020

UNIVERSITY, UNIVERSITY OF WASHINGTON (SEATTLE)

- Current Cumulative GPA: 3.42
- Current Major: Applied Physics
- Courses Taken: Mechanics, Electromagnetism, Waves, 300 Level Electromagnetism 1 & 2, Quantum Mechanics, Thermal Physics, Electric Circuits, Elementary Mathematical Physics 1 & 2, Calculus 3, Differential Equations, Linear Algebra, Experimental Physics, Advanced Optics Lab, Classical Mechanics, Scientific Computing, Visualization & CAD, Advanced Modern Physics Lab, Ocean Climate and Circulation, Dark Matter Literature Review, 300 Level Astronomy

2012-2014 YEAR

SUMMER PROGRAMS, EPGY/SPCS AT STANFORD UNIVERSITY

- Description: 3-week summer program held at Stanford University that provides students with an immersive study experience with a single subject. Attendance is achieved through an application process. Course organization includes morning lectures and afternoon study sections, as well as a long term final project and various field trips.
- Courses: Topics in Physics (2012), Environment and Earth Science (2013), Logic and Problem Solving (2014)
- Physics course included in-class study on particle physics and a field trip to SLAC.

2020-NOW YEAR

FULL STACK CODING BOOTCAMP, TRILOGY EDUCATION/UNIVERSITY OF WASHINGTON

- Description: 3-month, full time intensive coding bootcamp that covers front end and back end web development. Classes are daily during the week, with around 20-40 hours a week outside of class spent on programming and completing projects/assignments. The curriculum stresses working in a group setting with multiple cumulative group projects throughout the course that also require presentations.
- Topics: HTML, CSS, JavaScript, jQuery, Bootstrap, SEO, APIs (Calling and Creating), JSON, AJAX, Git, GitHub, Node.js, Progressive Web Applications, React.js, Heroku, MySQL, MongoDB, Templating Engines, Sessions, Writing Tests, Express.js, MVC, User Authentication, ORM, and Design Patterns

SKILLS & ABILITIES

- COMPUTER PROGRAMMING
  - MatLab and Python
  - Additional knowledge of Mathematica and Excel
  - HTML, CSS, JavaScript
- COMMUNICATION AND PRESENTATION
  - Proficient in creating visual aids for presentation purposes
  - Comfortable with verbal/written communication in public or private settings
- DATA ACQUISITION AND ANALYSIS
  - Able to use MatLab, Mathematica, or Excel for data collection and analysis, including creating figures and tables
- DESIGN SOFTWARE
  - Introductory experience with SolidWorks
- TEAM INTEGRATION
  - Able to work in a team environment
  - Organizational abilities to foster better work flow in team environments

PROJECTS

WEATHER DASHBOARD

- Description: A weather dashboard that displays the current weather and a 5-day forecast given a user inputted city. It calls the Open Weather Map API to access the data. Search cities are stored in a search history section which sets and pulls values to and from local storage. An additional component was added to display the local time, which pulled from a separate API. Moment.js was also used to further format the time for easier readability.
- Skills Used: HTML, CSS, JavaScript, localStorage, jQuery, dynamically created elements, and server-side API calls.
- URL: https://sophia2798.github.io/weather_app

PASSWORD GENERATOR

- Description: A webpage that creates a randomly generated password. The user is able to choose a set of criteria that they desire for their password. A further step to use toggle switches was added instead of using prompts. The user can also choose the length in characters of the password. Once the submit button is clicked, the password is generated. The user can then choose to copy the password to their clipboard by clicking the copy button. Further styling was used to add creativity and a more pleasing aesthetic to the page.
- Skills Used: HTML, JavaScript logic, conditional statements, functions, DOM manipulation, dynamically created elements, CSS styling
- URL: https://sophia2798.github.io/passowrd_generator

ONLINE TRIVIA/QUIZ

- Description: A timed multiple choice trivia quiz that includes a loading page with brief instructions, multiple questions, a countdown clock, a page when the time runs out, and a final page if the quiz is completed under time. The trivia and countdown clock begin when the user clicks the start button on the main page. The questions are then displayed one by one, with the result shown after the user chooses an answer. At the end, the user is able to input their name and score and save it to the leaderboard.
- Skills Used: HTML, CSS, JavaScript, localStorage, jQuery, dynamic HTML editing, and click events
- URL: https://sophia2798.github.io/API_quiz

CORONAVIRUS STATISTICS

- Description: A webpage that displays local COVID-19 case statistics, testing centers, and county health department information depending on user inputted city and state. The page makes API calls to four separate APIs to gather the necessary information. Chart.js is also used to dynamically create and display historical local data concerning COVID-19. Modal pop ups are used instead of alerts. Edge cases are also addressed to ensure a cleaner user experience.
- Skills Used: HTML, CSS, JavaScript, localStorage, jQuery, dynamically created elements, server-side API calls, Moment.js, Chart.js, Materialize CSS
- URL: https://sophia2798.github.io/covid_stats