Phil Yang

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Education

University of Southern California, Los Angeles CA **Aug 2017 – June 2021 (Expected)**
Bachelor of Science, Mechanical Engineering
Minor in Computer Programming
GPA: 3.47, Dean's List: 2 semesters

Programming Skills & Coursework

Languages: C++ • Java • HTML • CSS • PHP • JavaScript • SQL • MATLAB
Technologies: React • Bootstrap • MongoDB • AWS • Git • Siemens NX
Coursework: Programming Systems Design • Algorithms • Data Structures • Data Analytics

Experience

Teaching Assistant **Aug 2019 – present**
USC Viterbi School of Engineering Los Angeles, CA

- Managed a team of 6 to grade 10 assignments and 3 exams for ~80 students per semester for an Object-Oriented Programming course which improved leadership abilities
- Led 4 weekly sections of office hours for ~5 students per session to debug code and explain concepts which developed effective communication and critical thinking skills

Enterprise Applications Intern **June 2019 – Oct 2019**
Los Angeles Unified School District Los Angeles, CA

- Consulted the Information Technology Department on a weekly basis and managed their home page using CSS and Bootstrap to ensure responsive design and ADA compliancy
- Established the the LAUSD Hall of Fame database by developing a web form using HTML, CSS, and PHP to input data into SQL Server which resulted in the input of 1000+ alumni

Academic Projects

NASA Images **Jun 2020 – July 2020**

- Developed a React application to display image archives from NASA's Astronomy Photo of the Day and Mars Rover API to give users a better experience compared to the NASA page
- Implemented "like" and "comment" functionalities so users can personalize each photo
- Constructed the backend using Mongoose, NodeJS, and Express to store each user's login information, comments, and favorite images onto a MongoDB cluster

Smart Aquarium **Aug 2019 – Nov 2019**

- Sponsored by a biofuel research team at the Nuhzdin Lab at USC to build a water tank system to simulate ocean conditions in order to prolong the lifespan of kelp samples
- Led a team of 4 to develop an Arduino sensor system using C/C++ to store temperature and salinity data into a sheet and send SMS messages when the desired conditions are broken
- Developed a script in Java to incrementally send POST requests with the latest sensor data to an IoT platform called Losant where the data is displayed and updated via a webhook