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| Dallas, Texas (United States)  (+1) 469 605 7013  David.Song78th@gmail.com | David Song | F-1 Visa | |
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| Education | | | |
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| The University of Texas at Dallas | | | Richardson, Texas |
| Bachelor of Science in Computer Engineering; GPA 3.89 | | | Expected Dec 2021 |
| Brookhaven College | | | Farmers Branch, Texas |
| Associates of Science | | | May 2019 |
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| |  | | --- | | Skills | |  | | Technologies | | * Languages: HTML5/CSS3, JavaScript, React Native, Java, C++ * Libraries & Frameworks: NodeJS, JSON, Express JS, REST, Bootstrap * Databases: SQLite * Software: Git, VS Code, Eclipse IDE, OrCAD PSpice, Mathematica, Xilinx ISE * Hardware: Function Generator, DMM, Oscilloscope, DC Power Supply, Breadboard * Others: Soldering |   Unrelated Experience | | | |
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| Hunt Consolidated Inc. | | | Dallas, Texas |
| Marketing Intern | | | Jun 2019 – Aug 2019 |
| * Collaborated with a 5-member group of Marketing Team to conduct research, retrieve data from the survey, and evaluate the feasibility of Solar project in Southern Dallas Area. * Congregated with another 5-member group of Regulatory and Land Team to incorporate the information, and draft analysis. * Organized recommendations and impediments of the project and presented them to the company. | | | |
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| Projects | | | |
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| Senior Design Project | Sleep Apnea Detection Device | React Native | | | June 2021 - Present |
| * Work with a team of 5 to develop a Sleep Apnea Device to detect symptoms that potentially indicates the patient has sleep apnea * Implement a mobile app that keeps monitor of sleep apnea information of a patient that works on both Android and iOS using React Native * Fetch a formatted file with data from the microcontroller using Bluetooth which then the app reads the file and displays the actigraphy in user-friendly mode and clinician modes | | | |
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| ADC-DAC Converter | OrCAD PSpice | ADALM2000 | | | Dec 2020 |
| * Designed and assembled 3 types of bit levels ADCs-DACs converter circuit, using Op-Amp LM339, Comparator 74LS148, and Analog Devices ADALM2000 * Tested the input analog signal with a variation of the signal waveform at multiple frequencies and voltage input offset and decoded the output signal as digital binary bits * Calculated the degree of complexity of bits levels for RMS errors and troubleshoot input signal noises using an integrator filter to reduce noises generated | | | |
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| Redbox Kiosk | Java | | | May 2020 |
| * Implemented a Java program to track inventory file and process transaction log of DVD rental kiosk using Binary Search Tree * Required a transaction log file input from the user by following specific input formats which the program will overwrite the inventory file with new data and generate an error log file specifying for any invalidation inputs | | | |
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| Activities and Certifications | | | |
| * Institute of Electrical and Electronics Engineers, Member * Refurbished Computer, Computer for the Blind * UTD Student Leadership Training, The University of Texas at Dallas | | | Sep 2020 - Present  Feb 2019 – April 2019  May 2020 |
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| Languages | | | |
| English, Khmer (Native) | | | |