

Billy Sudirdja, Software Engineer

San Diego, <https://github.com/billysud>, (650)-267-0036, bsudirdja@gmail.com

EMPLOYMENT HISTORY

Sep 2022 — Sep 2023	Certified Repair Technician, Asurion	San Diego
	<ul style="list-style-type: none">• Use diagnostic tools, manuals, and technical knowledge to determine the root causes of equipment failures or performance issues.• Perform repairs, replacements, and maintenance tasks on faulty components.• Work with Samsung, Google and Apple to calibrate hardware based on procedure to ensure equipment meets performance and safety standards.	
Aug 2022 — Sep 2022	Customer Service Representative, Soapy Joes	San Diego
	<ul style="list-style-type: none">• Greet customers, answer their questions, and provide information about available packages, and pricing.• Inspect vehicles before and after the car wash to ensure high-quality service delivery and identify any potential issues.• Identify opportunities to promote additional services, such as detailing, waxing, or interior cleaning, based on customer preferences and vehicle needs.	
Jan 2019 — Apr 2021	Summer Intern, Stanford Linear Accelerator Center	Menlo Park
	<ul style="list-style-type: none">• Developed scripts for automation using Jython.• Experience design and development for gas equipment with AutoCAD• Developed in Ignition to display power distribution to PLC's• Assisted in engineering and installing Oxygen Deficiency Monitors made with copper tubing and compressed air	
Jan 2019 — Apr 2020	Peer Instructor, Skyline College	San Bruno
	<ul style="list-style-type: none">• Facilitated discussions to help students develop communication and problem-solving skills• Motivated students to think critically and become independent learners• Developed lesson plans that effectively addressed each student's academic needs	

PROJECTS

Music Notes	U.C.S.D
<ul style="list-style-type: none">• Created an application using JavaScript, CSS, HTML, ElectronJS.• Collaborated with 10 people for a continuous integration pipeline and version control using Git and Github.• Developed unit testing with Jest and end-to-end testing with Playwright.• Wrote and automated documentation using JSDocs.	
Huffman Compression/Decompression Tool	U.C.S.D
<ul style="list-style-type: none">• Designed and programmed a Huffman compression and decompression tool in C++• Constructed a Huffman tree using a bit-wise buffer and tree serialization, leading to a 70% decrease in file size• Optimized and profiled runtime using gprof (GNU Profiler), leading to a 10% decrease in overall runtime	

EDUCATION

Aug 2020 — Dec 2023	Bachelors, University of California San Diego	La Jolla
	Bachelors in Computer Engineering and Minor in Mathematics	
Aug 2016 — May 2020	Associates, Skyline College	San Bruno
	Associates for Transfer in Computer Science, Physics and Mathematics	

SKILLS

Python	C/C++
JavaScript	Verilog