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Culver City, CA

# Jasper Edbrooke

<https://github.com/jedbrooke>  
<https://jedbrooke.tech>

## Education

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<b>Los Angeles, CA</b>	<b>University of California, Los Angeles</b>	<b>Sept 2019 – Dec 2021</b>
<ul style="list-style-type: none"><li>• B.S in Computer Science, Dec 2021</li><li>• Undergraduate Coursework: Algorithms and Complexity, Introduction to Computer Graphics, Introduction to Machine Learning, Artificial Intelligence, Data Science</li></ul>		

## Technical Experience - Projects

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<b>Pi Spigot</b>	<b>github: jedbrooke/pi_spigot</b>	<b>Independent Project 2022</b>
<i>Technologies Used:</i> C++, AVX, x86 asm		
<ul style="list-style-type: none"><li>• Seeks the world record breaking calculation of 314 quadrillionth digit of Pi.</li><li>• Computes digits 43% faster by utilizing Bellard's formula</li></ul>		
<b>Auto-Editor Online</b>	<b><a href="https://auto-editor.online">https://auto-editor.online</a></b>	<b>LA Hacks Hackathon 2021-2022</b>
<i>Technologies Used:</i> Python, HTML, PHP, Svelte, Sqlite, Bootstrap		
<ul style="list-style-type: none"><li>• Created a full stack web based UI for automated video editing workflows.</li><li>• Optimized video processing for four times speedup by using the cloud processing to render videos.</li><li>• Reduced cloud computing costs by 75% compared to AWS by utilizing the decentralized Golem Network distributed cluster of over five hundred nodes.</li></ul>		
<b>PJzip</b>	<b>github: jedbrooke/PJzip</b>	<b>Independent Project 2021</b>
<i>Technologies Used:</i> Java, Maven		
<ul style="list-style-type: none"><li>• Achieved six times faster file compression by implementing multithreading across all available processor cores.</li></ul>		

## Employment

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<b>Computer Lab Technician</b>	<b>CompTechs</b>	<b>Sept 2018 - Aug 2019</b>
<ul style="list-style-type: none"><li>• Diagnosed and fixed problems with computer systems through rigorous troubleshooting strategy</li><li>• Installed Windows 10 and applications, software, drivers for compatibility with operating system</li><li>• Refurbished, repaired, and provided computers for dozens of disadvantaged students</li></ul>		
<b>Lead Full Stack Developer</b>	<b>CUSD CLIPCO</b>	<b>Jun 2017 - Apr 2019</b>
<ul style="list-style-type: none"><li>• Undertook the design and creation of a website that served over a thousand users using HTML, CSS, Bootstrap</li><li>• Constructed backend workflow automation in PHP saving two hours of developer time weekly</li><li>• Collaborated with a team bi-weekly to discuss content and features of the website</li></ul>		

## Languages and Technologies

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- Python; C; C++; CUDA; Verilog; Java; HTML; Javascript; PHP; Makefile
  - Jupyter; Docker; Unix/Linux; git; GitHub