

Jon Cohen | jon@joncohen.dev

Software Engineer, Creative Technologist

Please contact for a full list of technologies and stacks I'm familiar with

Goal	Translate my technical skills and experience to work on the climate crisis while learning more about the natural world.	
I Am	<p>An impact-focused software engineer looking to make a positive environmental impact with his work</p> <p>A creative thinker who enjoys learning new skills to solve problems</p> <p>A strong leader who enjoys setting up others for success</p> <p>An experienced public speaker and technology advocate</p>	
Work	<p><u>Outline - Anti-Censorship VPN (Google)</u></p> <p>Software Engineer</p> <ul style="list-style-type: none">- Implemented an anonymity-preserving metrics collection system on AWS- Implemented features and bugfixes for Electron and Cordova apps- Maintained a cross-cloud server implementation on AWS, GCP, and DigitalOcean- Wrote community help articles- Interfaced with users on Github and Reddit <p><u>Google Docs A11y - Making Docs Usable By All</u></p> <p>Software Engineering Resident</p> <ul style="list-style-type: none">- Wrote a language picker for the voice typing tool- Debugged and helped launch voice commands tool <p><u>Abseil - Open Source C++ Libraries</u></p> <p>Founding Member, Software Engineer</p> <ul style="list-style-type: none">- Open-sourced Google's most-used C++ code- Wrote a library to test exception-safety of C++ templates- Designed, built, and maintained CMake build system parallel to the main Bazel build system- Wrote code examples for quickstarts.- Consolidated multiple array view types into absl::Span, representing tens of thousands of usages across Google- Ran large-scale ($\sim 10^6$-10^9) edits) refactorings across the entire Google codebase- Contributed bugfixes and worked on proposed edits to the C++ standard <p><u>C++ Library Team - Maintaining Google's C++</u></p> <p>Software Engineering Resident</p> <ul style="list-style-type: none">- Wrote and maintained a test suite for different filesystems to make sure they're all compatible with each other- Wrote a generic globber which works on all filesystems	<p>April 2019 - September 2021</p> <p>April-June 2016</p> <p>June 2016 - April 2019</p> <p>January - June 2016</p> <p>September 2021 - January 2022</p>

Human
Centered
Technology

C++
Development

Creative Technology	<u>House of X</u> Lead Software Engineer <ul style="list-style-type: none"> - Interfaced with artists, designers, marketing, owners, and technical staff - Turned static designs into a <u>fast and engaging parallax site</u> - Seamlessly combined a Squarespace site for rapid WYSIWYG design for graphic designers with a static Gatsby and Headless Wordpress site for longer lived content. - Integrated third party ticketing APIs 	June 2021- September 2022
	<u>LED Art</u> Lead Engineer, Creative Director <ul style="list-style-type: none"> - Built a custom synchronized and networked LED croquet set - Led a croquet-related camp, culture, and mythology to create cohesiveness and forge new friendships between campers - Managed delegation of tasks and infrastructure 	2012 - 2014
	<u>Undergraduate Research (Duquesne University)</u> Research Assistant <ul style="list-style-type: none"> - Co-authored a <u>paper</u> published in the Journal of Mathematical Imaging and Vision - Improved algorithm runtime from hours to seconds (see Section 6) - Built reference implementation of algorithm in Matlab - Presented findings and functional analysis theory at conferences 	2018
Math Research	CppCon Largest international yearly conference for C++ developers <ul style="list-style-type: none"> - <u>How To Test for Exception Safety</u> - <u>Google's C++ Tips of the Week</u> - <u>Codebase Maintenance</u> 	2017
	<u>MathFest</u> Annual math conference run by the Mathematical Association of America <ul style="list-style-type: none"> - Presented "Pointwise Besov Space Denoising of Images" - Outstanding Presentation Award for research presentation 	2013
	<u>Public Speaking</u>	
Education	<u>Duquesne University</u> B.S. Mathematics B.M. Music Technology <ul style="list-style-type: none"> - Won Departmental Excellence Award in Mathematics 	September 2008 - April 2014