

<http://lewincary.com>
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Lewin Cary

EDUCATION

Stanford University, Class of '18

Palo Alto, United States
B.S. Computer Science

Cranbrook School, Class of '13

Sydney, Australia
Valedictorian 2009, 2011
Winner of two academic scholarships

TECHNICAL SKILLS

Software	C/C++, Java, JavaScript
WebDev	HTML/CSS/JS MEAN: Mongo, Express, Angular, Node LAMP: Linux, Apache, MySQL, PHP
Frameworks	Node.js, Laravel
Audio	Chuck
Visualization	Processing
VCS	Mercurial, Git

ORGANISATIONS

Facebook TechStart, Role Model

<https://techstartchapters.com>

CS + Mental Health, Member

<http://stanfordmh.com>

OTHER SKILLS

- Audio production & sound synthesis ~6 years experience
- Conversational French: French exchange immersion
- Sailing: holds boat license
- Certified barista
- Journalism: co-founder of school magazine
- First aid: cardio resuscitation re. viva
- Hiking/camping: Gold Duke of Edinburgh Award

EXPERIENCE

Founder & Software Engineer at Safeswap

<https://safeswap.io>

June 2016 - Present

- Founded and built a web-based company that facilitates the online exchange of electronic valuables in peer-to-peer transactions

Software Engineer Intern at Spacehop

<https://spacehop.com>

August - September 2016

- Built and deployed the company's new web application using Laravel framework that saw reduced loading times due to smarter database lookup
- Built an internal analytics tool with PHP/MySQL to identify consumer trends
- Built dynamic booking system in JavaScript, facilitating a 40% rise in sales

Software QA Engineer Intern at Naim Audio

<https://www.naimaudio.com>

June - July 2016

- Developed test scripts and procedures to ensure specification compliance in R&D embedded systems projects

Project Manager Intern at Appian Group

<https://appianguroup.com.au>

June - July 2015

- Configured and maintained web-based contract and document management system while interfacing between clients and internal management

Audio Software Dev at Centre for Research in Music and Acoustics

<https://ccrma.stanford.edu>

March 2015 - March 2016

- Coder in Ge Wang's Laptop Orchestra, creating networked systems over OSC
- Maintaining and troubleshooting CCRMA studios, including preparation and updating of user manuals and introductory tutorials

PROJECTS

more at <http://lewincary.com>

Heap Allocator in C

Dynamic memory allocator implemented in C utilizing a doubly-linked segregated free list with coalescing strategy:

- Throughput: 105% (25% > 12000k req/sec benchmark)
- Utilization: 65% (benchmark)

Stanford HabitLab HCI Research as a Chrome Extension

Assistant to Prof Michael Bernstein in his research on tracking and influencing online habits. Developing an app that enforces positive online habits through coded 'interventions'.

Multithreaded Proxy Chain Farm (C / C++)

Implemented a proxy server farm that asynchronously threads requests and responses, enabling proxy chaining between servers.

Simultaneous Visual and Sound Synthesis (Chuck / Processing / OSC)

Audio and visual synthesis from a virtual grid constructed in Chuck and Processing. A user plugs in a game controller and controls the location of a cursor in the grid. As the location changes, different sounds and visual patterns are synthesized.