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EDUCATION

Stanford University, Class of '18

Palo Alto, United States

B.S. Computer Science – Artificial Intelligence

Cranbrook School, Class of '13

Svdnev, Australia

Valedictorian 2009, 2011 - Winner of two academic scholarships

TECHNICAL SKILLS

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

OTHER SKILLS

- Audio production & sound synthesis
- Conversational French: French exchange immersion
- Certified barista Journalism: cofounder of school magazine
- First aid: cardio resuscitation re. viva

INTERESTS

- Produced experimental electronic music for ~6 years
- Traveling: backpacked 4 months around Europe
- Surfing; diving; swimming; snowboarding
- Sailing: holds boat license
- Hiking/camping: Gold Duke of Edinburgh Award

EXPERIENCE

Founder & Software Engineer at SafeSwap

https://safeswap.io

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

Software Engineer Intern at Spacehop

https://spacehop.com

- 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

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

Project Manager Intern at Appian Group

https://appiangroup.com.au

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

- 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)

Memory Leak Detector in C

Heap leak detection through dissection of ELF object files. Intercepts calls to malloc/realloc/free to track in-use blocks and provide function backtrace capabilities.

Photo Sharing WebApp (Mongo / Express / Angular/ Node)

Single page application based on Facebook where users can register, login, upload photos, comment and view recent activity. Implemented with a MEAN stack.

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.