Colin Findley

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EDUCATION

Depaul University   Chicago, IL
M.S., Computer Science   Expected August 2024
GPA: 3.85/4.0

University of Chicago   Chicago, IL
B.A. Psychology   Sep 2013 - Jun 2018
GPA: 3.43/4.0

WORK EXPERIENCE

Center of Social and Cognitive Neuroscience at the University of Chicago   Chicago, IL
Researcher   Oct 2017 - Jun 2018, Jun 2020 - Dec 2022
- Developed and launched online psychology experiments using JavaScript and HTML/CSS, reaching over 2,000 participants
- Streamlined data capture and analysis by developing a SQL-based framework for participant responses
- Co-authored and published two research papers on musical cognition in the APA-accredited journal "Psychology of Aesthetics, Creativity, and the Arts"
- Analyzed participant data using statistical analyses to derive meaningful insights and contributed to advancing psychological research

Hazelden Betty Ford Foundation   New York, NY
Addiction Technician   Jun 2019 - Apr 2020
- Supervised medication usage, conducted patient intake, and worked closely with medical staff to monitor patient progress and adjust treatment plans for over 70 patients.

Silver Hill Hospital   New Canaan, CT
Psychiatric Technician   Sept 2018 - Apr 2020
- Led and facilitated multiple weekly therapy groups, providing structured support and guidance to patients, while intervening in crisis situations to de-escalate conflicts and ensure patient safety.
- Collaborated with multidisciplinary care teams to develop and implement individualized treatment plans for patient care.

SOFTWARE DEVELOPMENT PROJECTS

Game Engine
- Designed and developed a video game engine from scratch using C++, recreating the classic game Space Invaders.
- Built comprehensive libraries for math, animation, timing, file systems, and mesh handling.
- Implemented Object Oriented design patterns such as Singleton, Composite, Factory, Command, and Proxy.
- Improved performance and efficiency by optimizing data structures for improved spatial locality, utilizing SIMD instructions for parallel processing, and enhancing the Windows operating system with custom memory management

Chrome Extension
- Developed a Google Chrome extension using React to manage browser tabs, providing features for bookmarking, rearranging, and closing tabs directly from the extension.
- Implemented tab tracking functionality and created an intuitive user interface with React, enhancing user productivity and ensuring seamless interaction.
- Utilized Chrome Extension APIs for tab manipulation and state persistence, incorporating state management and local storage techniques to maintain and restore user sessions and preferences.

SKILLS

Languages & Technologies: Java, C++, C#, R, SQL, JavaScript, HTML/CSS
Development Tools & Frameworks: React, Spring Boot, JUnit
Version Control & Collaboration Tools: Git, GitHub, HelixCore