Lucas Wein

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EDUCATION

Johns Hopkins University   Expected May 2027

Bachelor of Science in Computer Engineering, Minor in Visual Arts

Relevant Courses: Intermediate Programming, Data Structures, Gateway Computing (Java), Mastering Electronics, Digital Systems Fundamentals.

GPA 3.43

Los Angeles Valley College

Relevant Courses: Intro to Engineering Graphics & CAD Design, Intro to CS in C/C++, Drawing, Survey Art History.

Harvard Summer School

Relevant Courses: Computer Science 50 (CS50).

EXPERIENCE

Johns Hopkins University, Photo Color Correction and Restoration Specialist   August 2024 – Present
- Scan, color-correct, and restore archival slides and images from printed materials for digital preservation.
- Create workflows in Photoshop and Lightroom to aid in color correction.

44 Keys Internet Marketing, Website UI/UX Developer & Social Media Digital Marketing   January 2020 – Present
- Oversee Meta Business Suite and AdCenter for Facebook and Instagram for corporate startups such as Fabriq Pavilion (fabriqpavilion.com) and film promotions such as 76 Days Adrift (76daysadrift.net).
- Run A/B ad testing to create advertisements focusing on specific demographics.
- Develop and deploy websites, including Worthe.com, Looking.la, and Zonehead.com, utilizing PHP, HTML, CSS, WordPress, and MySQL to create robust and scalable web solutions.

Attune Media Labs, AI Integration and Data Engineering Intern   June 2024 – August 2024
- Generated custom data reports using Apache Superset integrated with a DynamoDB database, deployed via Docker containers on Amazon ECS.
- Administered and configured Amazon ECS clusters to efficiently run containerized applications.
- Engineered the integration of an AI MiM voice model synchronized with NVIDIA Audio2Face for real-time performance.

Buro Happold, Sustainability Team Intern   June 2022 – August 2022
- Collaborated with structural, electrical, and civil engineers to conduct and present research for large-scale projects, including a Santa Barbara Airport redevelopment.
- Implemented MS Excel applications that calculate carbon emissions of materials used to make rammed earth walls.
- Developed Dynamo workflows to streamline company architectural work in Revit.

ACTIVITIES

Blue Jay Racing, Data Acquisition (DAQ) Electronics   January 2024 – August 2024
- Designed and assembled prototype circuit boards for on-car load sensors, utilized to record real-time data during a race.
- Developed code for Teensy microcontroller in C++ to record data from load sensors onto an SD card.

Hydrogen Grand Prix Team, High School Club President   October 2021 – May 2023
- Led a team of 30 students to design, engineer, build and race a Hydrogen fuel cell-powered RC car.
- Increased efficiency of Hydrogen fuel cell system, redesigned surrounding electronics systems.
- Designed and 3D-printed structural components for the car, optimizing weight distribution and structural support.
- Contributed to a foundational design that was further refined by the team after my involvement, leading to their qualification and competition at the regional, state, and world championship.

SKILLS

Computer: Adobe Photoshop, Lightroom, Illustrator, Premiere; Microsoft Excel (Intermediate), Word.

Languages: C/C++, Java, Python, MATLAB, JavaScript, PHP, HTML5, CSS.

Operating Systems: Ubuntu, Debian, Arch Linux, Windows, macOS.

Databases: MariaDB, DynamoDB, MySQL.

Electronics: Soldering, PCB schematic and design in KiCad and EasyEDA, and hot plate assembly.