

# ZACHARY COHN

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## EDUCATION

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WASHINGTON UNIVERSITY IN ST. LOUIS  
*Bachelor's Technical Theatre, Computer Science*

St. Louis, MO  
2021-2025

## SKILLS

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Technical Skills: JavaScript, TypeScript, Python, C#, PHP, Arduino C, React, Express, Node, Next, Flask, Django, Electron, jQuery, Linux/Unix, AWS EC2, R2, Firebase, Heroku, MySQL, MongoDB, Raspberry Pi, Arduino, WordPress, Data Structures & Algorithms, Product Design, Adobe Creative Suite, Socket.js,

## PROFESSIONAL EXPERIENCE

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AMPLIFY  
Software Engineering Intern (IN PROGRESS)

Remote  
June 2024 - Present

McKELVEY SCHOOL OF ENGINEERING, WASHINGTON UNIVERSITY IN ST. LOUIS  
Head Teaching Assistant

St. Louis, MO  
September 2022 - Present

Course: CSE 330S/503S: "Rapid Prototype Development and Creative Programming", a full-stack web development course.

- Held office hours and in-class help sessions, collaborated directly with course instructor
- Developed autograding systems using Python to expedite grading processes, improving efficiency by approx. 94%
- Managed a team of teaching assistants and provided guidance to ensure effective delivery of course content.
- Contributed to course textbook to enhance student experience and maintain up-to-date course content
- Produced training videos and documentation for TA onboarding
- Developed and maintained instructor-level knowledge of course material, including: *HTML/CSS, Git, AWS EC2 Linux instances, LAMP stack (Linux, Apache, MySQL, PHP), MERN stack (MongoDB, Express.js, React, Node), Python scripting, Regex, JavaScript, Django, and Next.js.*

*\*Promoted to Head TA Spring 2023; previously held Primary TA position*

CREATIVE CONNERS, INC.  
Software Engineering Intern

Warren, RI  
June 2023 - August 2023

- Developed dark mode for Spikemark scenic automation software using C# and VB.NET to enhance user experience and accessibility
- Participated in code reviews to ensure code quality and upholding of style guidelines
- Refactored component styling system to improve codebase maintainability and design flexibility
- Trained in machine assembly and testing to gain hands-on experience with hardware components.

ARTWORK AND OPERATIONS MANAGEMENT PLATFORM  
Freelance Engineer

Remote  
January 2023 - August 2023

- Led the full-stack development (Next.JS, Cloudflare, MySQL) of an artwork and operations management platform for a notable pop artist, enabling inventory oversight, sales monitoring, and gallery-client interaction
- Implemented a bespoke TIFF image upload system via Cloudflare and R2
- Developed advanced search functionalities with boolean, exact matching, and fuzzy algorithms, improving search accuracy and efficiency
- Collaborated with client to design and develop product features, ensuring easy-to-use APIs and tools for optimized user experience and maintainability.
- Onboarded a qualified developer to ensure project continuity, enabling a smooth transition without sacrificing project quality and balancing growing academic demands

**CENTER STAGE SOFTWARE****Remote****Web Developer Intern****June 2022 - October 2022**

- Developed customer-facing ticketing web app using PHP, JavaScript, HTML/CSS, and jQuery
- Contributed to the migration of a Windows admin application to a web-based product
- Built custom jQuery plugins for improved website functionality
- R&D'd updated seat selection interface

**PROJECTS & OTHER EXPERIENCE**

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**STUDENT LIFE, WASHINGTON UNIVERSITY IN ST. LOUIS****St. Louis, MO****Senior Web Editor****April 2024 - Present**

- Managed a team of web staff and assigned content creation tasks.
- Led redesign initiatives to enhance website functionality and aesthetics.
- Conducted regular meetings to discuss website strategies and improvements.
- Participated in senior staff meetings to align web operations with organizational goals.
- Set up and maintained Google and WordPress admin accounts.
- Developed and implemented new features for the website.
- Oversaw server maintenance to ensure optimal website performance.
- Troubleshooted and resolved website crashes and other technical issues.

**LOVE NOTE PRINTER****Developer, Designer****November 2023 - January 2024**

- Designed and developed a full-stack hardware and software application/device to upload and print daily love messages for my significant other
- Developed and deployed TypeScript, Node, and Socket.js server on AWS Linux instance
- Created a client application (React) for uploading and managing love notes and messages
- Designed, 3D printed, soldered, and assembled an enclosure to house an LCD, Raspberry Pi Zero, and Thermal Printer