

ZACHARY COHN

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SUMMARY

Dynamic full-stack software engineer passionate about combining technology and creativity to deliver innovative solutions. Additionally, a skilled technical theater designer with lighting, sound, and projections expertise, having worked on over [20 productions](#) in the last three years.

EDUCATION

WASHINGTON UNIVERSITY IN ST. LOUIS

Bachelor's Technical Theatre, Computer Science

St. Louis, MO

Expected Graduation: SP 2025

SKILLS

Languages: JavaScript, TypeScript, Python, PHP, C#, Visual Basic, Arduino C

Frameworks and Libraries: React, Next.js, Express, Node, Electron, jQuery, Socket.io, Flask, Django, Symfony, .NET

Tools and Platforms: Git, Regex, Linux, AWS EC2, R2, Firebase, WordPress, Cloudflare, Apache, Raspberry Pi, Arduino, Jira, Figma, Adobe Creative Suite,

Databases: MySQL, MongoDB

EXPERIENCE

Internships

AMPLIFY EDUCATION

Software Engineer Intern

Remote

June 2024 - August 2024

- Worked on a full-stack project to expand functionality of curriculum-building tools on Desmos Classroom application, built in Typescript with React and proprietary JavaScript libraries.
- Collaborated with designer, project manager, and other engineers to develop and implement product requirements

CREATIVE CONNERS, INC.

Software Engineer 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.

CENTER STAGE SOFTWARE

Web Developer Intern

Remote

June 2022 - October 2022

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

Freelance and Campus Experience

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" (full-stack web development).

- Managed a team of TAs, held office hours, and in-class help sessions.
- Developed Python auto-grading systems, reducing grading time by ~94%.
- Updated course textbook to keep content current and enhance student experience; created TA training materials.
- Answered 300+ student questions per semester on Piazza online forum

**Promoted to Head TA Spring 2023 after one semester as Primary TA*

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STUDENT LIFE NEWSPAPER, WASHINGTON UNIVERSITY IN ST. LOUIS

Senior Web Editor

St. Louis, MO
April 2024 - Present

- Oversaw website maintenance, updates, and content management for the university newspaper.
- Led redesign initiative to enhance website functionality and aesthetics.
- Led development of bespoke web apps and WordPress integrations for newspaper “special projects”
- Implemented organizational efforts: Org-wide directory, tracking technical initiatives and issues with Jira

ARTWORK AND OPERATIONS MANAGEMENT PLATFORM

Freelance Developer

Remote
January 2023 - August 2023

- Led the full-stack development (Next.JS, Cloudflare, MySQL) of an artwork and operations management platform for a notable visual artist, enabling inventory oversight, sales monitoring, and gallery-client interaction
- Collaborated with client team to design (Figma) and develop product features.

PROJECTS

LOVE NOTE PRINTER

[PROJECT REPO](#)

- Developed a full-stack application to upload and print daily messages using TypeScript, Node, and Socket.js on AWS, with a React client; designed and 3D-printed an enclosure for an LCD, Raspberry Pi Zero, and Thermal Printer.

FREE TIME FINDER

[PROJECT REPO](#)

- A Chrome extension that interfaces with Google Calendar to identify free or busy periods in your schedule

COURSE REGISTRATION AUTOMATION

[PROJECT REPO](#)

- A Chrome extension to automate course registration, built to ensure I get into my first-choice classes

MAJORPROBLEM! REDDIT BOT

[PROJECT REPO](#)

- A fun Reddit bot that responds to mentions of a “major problem” with an ASCII salute to Maj. Problem