ZACHARY COHN

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EDUCATION

Washington University in St. Louis   **September 2021 - May 2025**
Bachelor's, Technical Theatre, Computer Science   *GPA: 3.8*

PROFESSIONAL EXPERIENCE

Mckelvey School of Engineering, Washington University in St. Louis   **St. Louis, MO, USA**
Head Teaching Assistant   *September 2022 - Present*
- Developed autograding systems using Python to expedite grading processes, improving efficiency and reducing grading time by approx. 94%
- Managed a team of teaching assistants and provided guidance to ensure effective delivery of course material and student support.
- Contributed to course textbook to enhance the learning experience for students, covering topics including HTML/CSS, Git, AWS EC2 Linux instances, LAMP Stack (Linux, Apache, MySQL,PHP), MERN stack (MongoDB, Express.js, React.js, Node.js), Python scipting and Regex, Javascript, Flask, Django and Next.js
- Produced TA training videos and written material.
- Held office hours and in-class help sessions, collaborated directly with course instructor to facilitate student learning
- **Promoted to Head TA Spring 2023; previously held Primary TA position*

Creative Conners, Inc   **Warren, RI, USA**
Software Engineer Intern   *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 best practices in software development
- Refactored component styling system to improve the front-end design and user interface of the software
- Trained in machine assembly and testing to gain hands-on experience with hardware components
- Contributed to the development of product features and design enhancements for the Spikemark scenic automation software

Center Stage Software   **Remote**
Web Developer Intern   *June 2022 - October 2022*
- Developed customer-facing ticketing web app using PHP, JavaScript, HTML/CSS, and jQuery, focusing on user experience and front-end design
- Contributed to the migration of a Windows admin application to a web-based product, ensuring product features were maintained and enhanced
- Utilized JavaScript to build custom jQuery plugins for improved website functionality and user interaction
- Applied knowledge of front-end development and CSS to enhance the user interface and improve the overall user experience
- Engaged in a fast-paced, lean engineering environment, learning and adapting rapidly to contribute effectively to the development process

PROJECTS & OUTSIDE EXPERIENCE

Artwork and Operations Management Platform   **Remote**
Freelance Software Engineer   *January 2023 - August 2023*
- Led the full-stack development of an artwork and operations management platform for a notable pop artist, enabling inventory oversight, sales monitoring, and gallery-client interactions, built in React, Next.js and MySQL..
- Implemented a specialized TIFF image upload system via Cloudflare and R2, enhancing image upload performance and user experience.
- Developed advanced search functionalities with boolean, exact matching, and fuzzy algorithms, improving search accuracy and efficiency.
- Onboarded a qualified developer to ensure project continuity, enabling a smooth handoff without sacrificing project quality and balancing growing academic demands.
- Collaborated with client to design and develop product features, ensuring easy-to-use APIs, systems, and tools for optimized user experience and maintainability.

Love Note Printer   **Remote**
Developer, Designer   *November 2023 - January 2024*
- Designed and developed a full-stack hardware and software application/device to upload and print daily loves messages for significant other.
- Developed and deployed TypeScript Node and Socket.js server on AWS Linux Instance
- Created a client application (React.js) 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.

SKILLS

JavaScript, TypeScript, Python, C#, VB.NET, PHP, HTML/CSS, Bash, React.js, Express.js, Node.js, Next.js, Flask, Django, Electron.js, jQuery, Bootstrap, Tailwind, Linux/Unix, Windows Presentation Foundation (WPF), AWS, Firebase, Heroku, Digital Ocean, Adobe Illustrator, CAD, MySQL, Mongoose, Raspberry Pi, Arduino, Agile, Data Structures & Algorithms, Product Design
Languages: French, English