

John Chou

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EDUCATION

University of California, San Diego

Expected Dec 2024

Bachelor of Science in Computer Science, Minor in Economics

EXPERIENCE

Amazon Web Services (AWS Elemental MediaLive)

Jun. 2024 – Aug. 2024

Software Dev Engineer Intern — C++, Python, Typescript

Portland, OR

- Shipped a new feature enabling customers to initiate RTP input packet captures for their channels
- Extended existing public-facing MediaLive Schedule Action API to support packet capture requests
- Refactored internal code to handle packet capture requests from the AWS console and API
- Implemented threading and continuous monitoring functionality to write files to customer S3 buckets
- Wrote schema validations, unit tests, and end to end tests

UC San Diego Animal Research

May 2023 – Jun. 2024

Web Developer — JavaScript, HTML/CSS

La Jolla, CA

- Redesigned internal legacy intranet and extranet sites to enhance user experience for research staff
- Improved navigation, achieving 30% reduction in the average click distance to the top visited pages
- Transitioned product/service price displays and staff contact information to dynamic data rendering
- Implemented responsive design across various devices, significantly improving site accessibility

San Diego Supercomputer Center

Jun. 2022 – Sept. 2022

Software Engineering Intern — Python, JavaScript, HTML/CSS

San Diego, CA

- Developed a student networking web application featuring user interaction based on mutual interests
- Implemented profile creation features and comprehensive unit testing and debugging
- Created Figma layouts and Adobe Illustrator mockups, and established cohesive styling for the team

Transflux Playing Cards

Feb. 2018 – Sept. 2021

Co-founder

Los Angeles, CA

- Designed and manufactured a custom playing cards series from scratch using Adobe Illustrator
- Successfully marketed and launched two Kickstarter campaigns, collectively raising over \$16,000
- Established global wholesale partnerships and coordinated distribution from three fulfillment locations to deliver to over 400 customers across 30 countries

PROJECTS

eSports Data Modeling

- Developed a predictive Python model for professional League of Legends DFS props
- Achieved 78.6% accuracy in predicting props by analyzing over 3,000 matches and 1,000 players

Poker Evaluator

- Implemented an advanced poker hand evaluator algorithm, leveraging bitwise operations and prime number multiplication to encode and efficiently compare hand values without the need for sorting