Chenyi Zhao

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SKILLS & AWARDS

Languages: Python, Java, C, Javascript, Assembly   **Libraries**: NodeJS, React, Express
Back End: MongoDB, MySQL, REST API   **Front End**: HTML, CSS
Awards:
- Woman Candidate Master Title in Chess (won 3rd in PanAm - Girls U14) awarded in 2015
- North American Youth Chess Championships 2012 Silver Medal
- Qualified for World Youth Chess Championships 4 times (Tied for 6th in 2011)

EDUCATION

California Polytechnic State University - San Luis Obispo, CA   Sept. 2022 - Present (exp. Jun 2026)
Bachelor of Science in Computer Science, Minor in Math   **GPA: 3.7/4.0**

Dean's List [Winter'23, Spring'23, Fall'23, Winter'24, Spring'24]
Relevant Coursework: Data Structures, Discrete Structures, Computer Organization, Object Oriented Programming and Design, Systems Programming, Design and Analysis of Algorithms, Database Systems, Software Engineering and Development Processes, Linear Analysis, Statistics for Engineers, Game Theory

WORK EXPERIENCE

Computer Science Tutor   Oct. 2023 - Present
California Polytechnic State University - San Luis Obispo, CA
- Provide tutoring to students on subjects incorporating data structures in **Python**, object-oriented programming in **Java**, and the foundational principles of computer science
- Facilitate productive learning experiences, demonstrate the ability to simplify complex technical topics, and encourage students to develop problem-solving skills
- Strive for excellence in guiding students through challenging coursework, leveraging effective communication, and adaptability to meet diverse learning needs

PROJECTS

Calendar Web Application   March - June 2024
- Developed a full-stack calendar web application, allowing users to create, view, edit, and delete events using **Javascript** and **CSS**
- Designed and implemented the front end using **React**, creating reusable components for event forms, tag management, and event listing
- Crafted the back-end with **NodeJS** and **Express**, handling API routes for events and tags, and ensuring data persistence with **MongoDB**

Tar Function Recreation   May 2023
- Developed a custom implementation of the Unix tar command from scratch using **C**
- Implemented file archiving, extraction, and listing capabilities
- Utilized knowledge in systems programming, file I/O operations, error handling, and memory management
- Employed **Valgrind** to detect memory leaks and optimize memory usage, and used **GDB** for debugging

EXTRACURRICULAR

President   March 2023 - Present
Badminton Club
- Delegate tasks, communicate updates, and oversee board members' responsibilities
- Collaborate with board members and delegate tasks to plan traveling to tournaments, social events, and practices
- Dedicated to ensuring that club activities run efficiently and members stay well-informed
- Work jointly with badminton clubs of other universities to direct scrimmages with other universities