Ethan Outangoun

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EDUCATION

California Polytechnic State University, San Luis Obispo
Bachelor of Science Degree in **Computer Science** August 2020 – March 2024
GPA: 3.73

Relevant Coursework: *Software Engineering, Data Structures, Design and Analysis of Algorithms, Objected Oriented Programming and Design, Systems Programming, Computer Architecture*, *Intro to Database Systems*

WORK EXPERIENCE

Machine Learning Research Assistant – California Polytechnic State University March 2023 - Present

- Enhanced machine learning algorithm to detect ethnicity based on facial features and names
- Collected and preprocessed large datasets, including cleaning and normalization of data

Software Engineer Intern – TGD Engineering, Union City June 2022 – September 2022

- Automated multistep process to wash 55 gallon drums utilizing RS-Logix 500 software
- Conducted extensive testing and debugging of the system using a MicroLogix PLC
- Collaborated with other developers to design an interface for operators to monitor the system

IT Student Assistant – Cal Poly Corporation, San Luis Obispo September – December 2021

TECHNICAL PROJECTS

AI Web-Summarizer
Languages & Tools Utilized: ReactJS, Tailwind, Vercel April 2023

- Developed a website that uses GPT to summarize any website given a valid link
- Implemented a system for making RTK query API requests that dynamically trigger on specific conditions
- Employed Tailwind CSS for rapid UI development and customization

GroupCart September 2022 – December 2022
Languages & Tools Utilized: ReactJS, NodeJS, MongoDB

- Designed and developed a website where users can join/create grocery groups with other users
- Created a user friendly and responsive design for the website using NextUI and React Bootstrap
- Collaborated with a team utilizing Scrum methodology for successful project outcomes

Parallel BMP Decompression March 2022
Languages & Tools Utilized: C++

- Developed a program for efficient bitmap file decompression
- Used parallel processing to increase efficiency of decompression, using four child processes to work on four quadrants of the image simultaneously
- Utilized system calls (e.g., fork, exec, signal, mutex) and properly managed resources of child processes

CAMPUS INVOLVEMENT/VOLUNTEER WORK

Thai Vietnamese Student Association, Social Chair March 2021 – Present

- Volunteered 80 hours for community organizations throughout San Luis Obispo
- Coordinated events and managed communications with other clubs across California

SKILLS

Programming Languages: Python, Java, C++, JavaScript, Racket, Ladder Logic, HTML/CSS, C#
Familiar Technologies: React, SQL, Vim, Git, Figma, Unix, NumPy, Visual Studio Code