ALEX SOTIROPOULOS

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EDUCATION

University of Southern California   Los Angeles, CA
Master of Science in Computer Science   January 2023—December 2024
- GPA : 3.71 / 4.00

Purdue University   West Lafayette, IN
Bachelor of Science in Industrial Engineering   August 2015—May 2019
- GPA : 3.35 / 4.00

TECHNICAL SKILLS

- Full-stack development, NodeJS, Typescript, Python, Tensorflow, Java, C, C++, APIs, Angular, Redux, Docker, SQL, Cypress.io
- Coding Samples Available Upon Request

ACADEMIC RESEARCH PUBLICATIONS

Los Angeles, CA
Co-Lead Researcher   March 2022—Present
- Spearheaded research on a decentralized, crowd-sourced LLM fine-tuning framework using iterative, tournament-based rounds where multiple user groups fine-tune competing models, with rewards allocated via Shapley value-inspired metrics (paper submitted for conference publication; under review)

PROFESSIONAL EXPERIENCE

Epsilon, A Subsidiary of Publicis Groupe (XPAR: PUB)   Chicago, IL
Software Engineer   January 2020—December 2022
- Developed three interconnected full-stack web apps to initiate online advertising campaigns
- Handled front-end tasks by developing 20+ Angular components and efficiently managing application state with NgRx
- Crafted API endpoints, managed Postgres queries via ORM, and executed data mapping in the REST framework for 5 applications
- Authored a NodeJS script leveraging Axios to conditionally update deep JSON database entries, reporting changes in both stage and production environments
- Designed and implemented an independent high-priority Angular front-end project crucial to company strategic goals

Epsilon, A Subsidiary of Publicis Groupe (XPAR: PUB)   Chicago, IL
Associate Software Quality Assurance Engineer   June 2019—January 2020
- Built end-to-end testing infrastructure using Docker, facilitating Cypress tests for six Angular applications, optimized for local development and CI integration
- Championed testing best practices globally, assisting five teams teams in the US and India to enhance test infrastructure and write reliable, flake-free test code
- Configured Docker images for essential services, providing a consistent environment for Cypress tests for four applications
- Delivered two presentations at company's DevOps Summit on Cypress features and flake handling, reaching approximately 200 Epsilon developers

North Atlantic Industries   Bohemia, NY
Engineering Intern   June 2017—August 2017
- Crafted test suites with power supplies and relay cards, enhancing efficiency by 40% and reducing errors for automated tests
- Conducted a cost analysis of custom packaging suppliers, influencing vendor selection
- Researched and devised an algorithm to pinpoint single failure points, identifying 10+ cross-training needs for employees

LEADERSHIP / HONORS / AWARDS

- Front-end software developer volunteer for Laporte, IN Habitat for Humanity in 2025
- Epsilon DevOps Summit semifinalist for presentation on Cypress.io in 2021
- Mentor in Epsilon's New Hire program
- Volunteer for Epsilon's Campus Recruitment at Purdue University in 2021