ELISHA NAM

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OBJECTIVE

Computer science student specializing in Intelligent Systems. Seeking internships or entry-level job opportunities to expand and enhance current programming skills.

EDUCATION

University of California, Irvine **GPA: 3.97**
BS, Computer Science Specializing Intelligent Systems **Expected June 2025**

- Relevant Coursework: Machine Learning & Data Mining, Data Structure Design & Analysis, Algorithms, Intro to Artificial Intelligence, Probabilities in Computer Science, Computer Networks, System Design

WORK EXPERIENCE

Focus Learning Center **Jul 2023 - Present**
Education Consultant **La Crescenta, CA**

- Design learning modules and study plans to prepare for AP exams, while also curating relevant study materials to optimize the learning process
- Develop customized curricula and administer assessments and aptitude tests to evaluate students' skills, interests, and learning styles

PROJECTS

Redis Optimized Serverless Search Engine **Sep 2023 - Dec 2023**

- Developed a search engine that is capable of handling tens of thousands of documents or Web pages in the UCI ICS subdomain with Python, leveraging advanced techniques including tf-idf scores, page rank algorithms, keyword analysis, and autocorrection functionalities to deliver accurate search results
- Utilized the NLTK library to autocorrect words, extract key words from a query, and stem words
- Converted original JSON inverted index to Redis by altering data structure, allowing data to be hosted on a cloud instead of locally and optimizing search operations
- Constructed full stack website to showcase project, building the frontend with the Next.js framework and using Flask as an API endpoint to handle Redis queries, deploying the website on Vercel

Comparative Analysis of Various Minesweeper Algorithms **June 2023**

- Implemented search algorithms, Harvard sentence-reduction logic, and heuristics searches, quartering initial runtime
- Created an accurate and efficient algorithm for solving Minesweeper worlds of varying sizes, reaching 87% accuracy among 1100 tested worlds that had randomly placed mines

ADDITIONAL

Skills: Python, C++, Typescript, Java, Javascript, HTML, CSS, Tailwind, Git, React, Next.js, Node.js, NLTK, Flask, SQL, Redis, Linux Development, Kamatera, Microsoft Office, Figma, Unity, Vercel, LaTeX
Interests: Snow Boarding, Bowling, Fitness
Awards: HackSoCal2020 First Place, Dean's List, Regent Scholar