ELISHA NAM

esnam@uci.edu ◇ (818) 523 2533 ◇ Irvine, CA
esnam.vercel.app ◇ github.com/eNamja ◇ linkedin.com/in/elisha-nam

EDUCATION

University of California, Irvine **GPA: 3.97**
BS, Computer Science Specializing in 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

SKILLS

Proficient: Python, TypeScript, Java, C/C++, Tailwind, HTML/CSS, Git, React.js, Next.js, Vercel
Experienced: Flask, MySQL, Redis, Linux, AWS (EC2), Kubernetes, Maven, JDBC, NLTK, NumPy, Matplotlib, LaTeX, Microsoft Office

PROJECTS

Fabflix: Movie Merchant Website **Mar 2024 - Present**

- Build fullstack movie management web app using Java, JDBC, and MySQL for backend operations, with a frontend built on HTML, CSS, and JavaScript
- Implement core functionalities including user authentication, movie browsing, search filtering, and shopping cart management, following MVC architecture and RESTful design principles
- Ensure scalable and high availability deployment on AWS EC2, leveraging Kubernetes for container orchestration and cloud resource management

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

- Developed a search engine that handles tens of thousands of Web pages in the UCI ICS subdomain
- Leveraged 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

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

ADDITIONAL

Awards: HackSoCal2020 First Place, Dean's List, Regent Scholar