Derek Naing

dereknaing01@gmail.com | (626)-426-2192 | linkedin.com/in/dereknaing | github.com/dnaing

EDUCATION

University of California, Irvine — **Irvine, CA**
Bachelor of Science in Computer Science, GPA: 3.62 — June 2023

SKILLS

Languages: Python, Java, C++, C, C#, Dart
Front-end: HTML, CSS, JavaScript, Typescript, React, Flutter, Ionic
Tools: Git, GCP, AWS
Back-end: Node.js, Express, SQL, MongoDB, RESTful

PROFESSIONAL EXPERIENCE

Data Annotations — **New York, NY**
AI Trainer — Dec 2023 – Present

- Designed 150+ AI model prompts of varying complexity to evaluate performance across different difficulty thresholds.
- Assessed quality metrics of 200+ AI-generated code responses in Python, JavaScript, Java, SQL, and React.
- Delivered consistent ratings across key subcategories ensuring reliable evaluation of overall model qualities.
- Corrected 100+ AI model response errors, ensuring high quality code generation and explanations that adhere to best practices.
- Provided targeted feedback on AI model responses, refining future model outputs and improvements in accuracy by 20%.

HackUCI Hackathon — **Irvine, CA**
Software Engineer — Feb 2022 – Feb 2022

- Created a food recipe web application in a team of 4 to enable users to effortlessly discover recipes tailored to their available ingredients using React for the front-end and Flask to fetch nutrition data from the Edamam Recipe Search API.
- Developed JavaScript API integration to fetch and filter recipes based on user selected ingredients, dietary restrictions, and calorie limits, delivering up to 20 relevant results per query while maintaining seamless front-end rendering.
- Presented a video demo to five judges in a 40-team competition, highlighting the app's meal planning abilities.

PROJECTS

Night Timer — May 2024 – Jan 2025
Tech Stack: Flutter, Dart, Kotlin

- Engineered Flutter-based sleep timer app that stopped audio playback on Android devices to reduce overnight battery drain by 66%.
- Designed a circular dial for intuitive timer adjustments, displaying the exact clock time the timer will end for added clarity.
- Enabled notification-based controls that allowed users to increment, decrement, or stop the sleep timer seamlessly, ensuring uninterrupted usability even while the app ran in the background or was completely closed.
- Implemented a persistent timer state management system to ensure 100% accuracy of the timer state upon reopening of the app.

Search Engine — Feb 2023 – Jun 2023
Tech Stack: React, Flask, Python, JavaScript, HTML, CSS

- Designed a Search Engine from scratch, using Python, that enabled users to explore over 55,000 UCI subdomains for information.
- Enhanced search algorithm by implementing advanced search techniques such as boolean retrieval, ranked retrieval, indexing, and page ranking, retrieving up to 200 of the most relevant results for any given query.
- Enhanced user engagement by 20% through the development of a React front-end with integrated voice-to-text functionality.
- Built a Flask-based back-end to efficiently handle search queries, reducing response times to under 0.2 seconds.

The Star Wars Codex — Jan 2023 – Jun 2023
Tech Stack: JavaScript, MongoDB, Express, React, Node.js, HTML, CSS, GCP

- Created a full stack Star Wars wiki web application with a user-friendly interface, using React for the front-end and an Express-powered REST API for the back-end, enabling seamless browsing and sorting of information.
- Developed a personal MongoDB database by extracting data from the Star Wars API, enhancing data retrieval robustness by 20%.
- Leveraged Google Cloud Storage as an effective data management image hosting solution for 250+ Star Wars assets.
- Enhanced global accessibility by implementing mobile responsiveness and deploying the platform to Google Cloud, ensuring seamless performance across various devices and achieving 100% uptime.

Mobile Sleep Tracking — Jan 2023 – Mar 2023
Tech Stack: Ionic, Angular, Typescript, HTML, CSS

- Developed an Ionic and Angular based mobile sleep tracking application to assist users with maintaining a healthy sleep schedule.
- Formulated sleep recommendation algorithms in the back-end to generate tailored and personalized sleep times, leveraging data-driven insights from user provided sleep schedules to optimize rest quality and overall sleep health.
- Designed an intuitive front end and user interface that utilized the Chart.js library to display up to 30 days of past sleep quality data.