Kevin Nguyen

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EDUCATION

University of California, Santa Barbara   Expected June 2025
Bachelor of Science in Computer Science
- GPA: 3.77/4.0
- Courses: Algorithms and Data Structures

EXPERIENCE

Science Research Intern   June 2020 - December 2020
University of California, Santa Cruz | Remote
- Tested a new method of analyzing VERITAS telescope data to verify the existence of previously unidentified celestial objects using Python
- Increased statistical confidence or sigma by 14.5% to 17% depending on the energy spectrum
- Presented research results for the American Astronomical Society

PROJECTS

Tetris Statistics Discord Bot | **Python, Web Scraping, APIs, Databases**   Nov. 2021 - May 2022
- Developed a Discord Bot to scrape and compile Tetris statistics from popular Tetris client Jstris to help competitive players improve their gameplay
- Hosted and managed the bot with a remote AlmaLinux server
- Maintained a user base of 50+ competitive Tetris players
- Corresponded with Jstris' lead developer to ensure stable website traffic

Chess Engine | **C++, CMake, Make, GTest, Bash**   August 2023 - Present
- Created a Universal Chess Interface compliant chess-playing program
- Implemented alpha-beta search, piece-square tables, zobrist hashing, and other techniques
- Increased search speeds by about 30-50% using magic bitboards, a perfect hashing technique
- Rigorously tested for gameplay improvements using Sequential Probability Ratio Test, ensuring statistically significant elo gains

Webnovel Reading List | **Javascript, Python, HTML, CSS, SQL**   June 2023 - Present
- Developed a website application with various features to help track webnovels
- Stored user data in an SQL database managed by Python and presents that data with a front end using vanilla Javascript
- Supported CRUD operations using a REST API

Personal Website | **Next.js, React, Tailwind CSS, Markdown**   August 2023 - Present
- Developed a front end website detailing personal accomplishments
- Interpreted Markdown files automatically for ease of updates

SKILLS

Languages: Python, JavaScript, C, C++, SQL, HTML, CSS, Bash

Frameworks: Next.js, React, Tailwind Css

Libraries: GTest, pandas, NumPy, Matplotlib

Tools: Git, Github, Linux, Unix, MongoDB

AWARDS

SB Hacks 2023, Best Use of MongoDB Atlas