Ben Guo

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EDUCATION

University of California, Los Angeles   September 2021 - December 2024
Bachelor of Science in Computer Science - GPA: 3.7/4.0   *Los Angeles, CA*
- **Relevant Coursework**: Multivariable Calculus, Linear Algebra, Discrete Math, Statistics, Data Structures & Algorithms, Data Science, Software Construction & Development, Machine Language and Computer Organization, Artificial Intelligence, Computer Architecture, Computer Networking, Computational Theory, Programming Languages

WORK EXPERIENCE

Software Developer Intern   June 2024 - Present
Fulgent Genetics   *El Monte, California*
- Using **Vue.js, Spring, and MongoDB** in **fullstack development** to improve and modernize an image annotation web app for clinical pathologists
- **Strengthening reliability and speed** of existing infrastructure, including **image deep zoom and layered image tiling**, achieving a 1.7x **speedup**
- Scoping and designing future phases using **OpenSeaDragon**, including **advanced annotation control, image filters, measuring tools, and view options**

Software Engineering Intern   July 2023 - February 2024
AvanSight   *Irvine, California*
- Utilized **ASP.NET Core** to develop web applications for clinical study tracking, backend data processing, storage, and routing with **C#**
- Actively improved frontend client interface and **loading performance** using **JavaScript**, with libraries **jQuery**, **AGGrid**, and **amCharts**

Software Engineering Intern   July 2022 - September 2022
Yami   *Brea, California*
- Collected race & ethnicity demographics from US cities and colleges with **Python and MySQL**
- Built an internal **full-stack web application** that allowed users to access the data using **Angular and Spring**, increasing micro-service performance and provided additional insight to advertising and marketing departments
- Utilized **Redis** to optimize caching and access speeds to the database

PROJECTS

QED.AI | *Firebase, Express, React, Node.js*   April 2023 - May 2023
- Developed a web application that **validates mathematical proofs and equations** with natural language processing
- Utilize and implemented **OpenAI's ChatGPT API** and **Mathpix's Image Recognition API**

MyCourse | *HTML/CSS, JavaScript, React, Express, MongoDB, Node.js*   September 2021 - June 2022
- Created a **full stack** course planner for UCLA students
- Integrated and utilized **UCLA's courses, classes, and schedules APIs** in the application
- Allows for **real time listing** of available classes for any school quarter, displays information including **class size, time, location and mapped directions**
- **Dynamically displays** the logged in user's added classes and saves their information from **MongoDB**

TECHNICAL SKILLS

Languages: Python, Java, C/C++/C#, MySQL, JavaScript/TypeScript, HTML/CSS

Frameworks & Tools: React, Angular, Vue.js, Node.js, Spring, Express, ASP.NET

Communication: English (Native), Mandarin Chinese (Native), Spanish (Intermediate)