

# Ben Guo

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## EDUCATION

### University of California, Los Angeles

BS in Computer Science • September 2021 - December 2024 • GPA: 3.7

- 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, Software Development

## EXPERIENCE

### Software Developer Intern

Fulgent Genetics

June 2024 - Present, El Monte, California

- Using Vue.js and Spring in full-stack development to improve and modernize an image annotation web app for clinical pathologists.
- Strengthening reliability and speed of existing infrastructure, achieving a 1.7x speedup in image deep zoom and layered image tiling.
- Scoping and designing future phases, including advanced annotation control, image filters, measuring tools, and view options.

### Software Engineering Intern

AvanSight

July 2023 - February 2024, Irvine, California

- Utilized ASP.NET Core and C# to develop an web application for clinical study tracking, backend data processing, and UI/UX design.
- Actively improved frontend client interface using JavaScript, with libraries and frameworks of jQuery, AGGrid, and amCharts.
- Significantly increased graph and table loading times by utilizing Redis for caching and optimizing data fetching infrastructure.

### Software Engineering Intern

Yami

July 2022 - September 2022, 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, achieving a 1.2x speedup.

## PROJECTS

### QED.AI

CSS/HTML/JavaScript, React, Node.js, MongoDB • [github.com/benguo2003/qed](https://github.com/benguo2003/qed) • April 2023 - May 2023

- Developed a web application that validates mathematical proofs and equations with natural language processing.
- Spearheaded the project and organized workflow as well as development roadmap.
- Fully integrated OpenAI's ChatGPT API and Mathpix's Image Recognition API into the webpage.
- Solved problems and verified answers with 95% accuracy with extensive prompt engineering.

### MyCourse

CSS/HTML/JavaScript, React, Node.js, MongoDB • [github.com/benguo2003/MyCourse](https://github.com/benguo2003/MyCourse) • September 2021 - June 2022

- Created a full stack course planner for UCLA students with live class listings and course information.
- Integrated and utilized UCLA's courses, classes, and schedules APIs in the application.
- Dynamically displayed the logged in user's added classes and saves their information from MongoDB.
- Efficiently fused existing professor rating system with the application, providing detailed student reviews for respective classes.

## SKILLS

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

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

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