

John Ieng

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EDUCATION

California Polytechnic State University - San Luis Obispo, CA

2022 - 2025

Bachelor of Science - Computer Science

GPA: 3.70

Coursework: Project-Based Object-Oriented Programming & Design, Systems Programming, Design & Analysis of Algorithms, Intro to Software Engineering, Artificial Intelligence, Knowledge-Based Systems, Intro to Databases

SKILLS

Python, Java, JavaScript, Typescript, C#, React, Next.js, Node.js, Blazor, MongoDB, MySQL, HTML, CSS, Agile

Software Tools: Docker, VSCode, Git, IntelliJ IDEA, REST APIs, Postman, Jira, Confluence

EXPERIENCE

PG&E **09/2024 - Present**

Student Developer *San Luis Obispo, CA*

- Utilize **Blazor, Entity Framework, and Microsoft SQL Server** to modernize regulatory compliance software.
- Design scalable, server-side data retrieval solutions, optimizing queries to improve frontend loading speeds.
- Develop role based access features to enforce secure user permissions, reducing unauthorized access risks.

Hack4Impact **09/2022 - Present**

Software Developer *San Luis Obispo, CA*

- Developed web applications using **React, Next.js, and MongoDB** to deliver responsive/scalable solutions.
- Design and develop backend routes for **REST APIs**, ensuring high performance and reliability.
- Integrated **AWS S3** for scalable and efficient file storage, improving upload and file retrieval time by 200%.
- Conducted comprehensive testing and debugging, ensuring API's reliability and seamless integration.

Develop4Good **04/2023 - 09/2023**

Software Developer *San Luis Obispo, CA*

- Spearheaded development of responsive web interfaces using **Next.js, Firebase, and Tailwind CSS**.
- Implemented an automatic secured invoicing and donation matching system using **Stripe API**.
- Leverage webhooks with Stripe's API to develop payment processing and notifications system for donors.
- Refactored Firestore database schemas for scalability and faster querying.

PROJECTS

AI Wikipedia Game Solver | Next.js, TypeScript, SQLite, Docker, Oracle Cloud **04/2024 - 09/2024**

- Built an application to find optimal paths between Wikipedia pages, using worker threads for request handling
- Developed a heuristic using **sentence embeddings** from pre-trained BERT models.
- Switched from Wikipedia's API to local **SQLite** database parsed from a Wiki dump, increasing speeds by 300%.

InterviewIQ | Next.js, TypeScript, ChatGPT-4o API, MongoDB **10/2024 - 03/2025**

- Developed an AI-powered coding interview simulator with a live coding environment, allowing users to solve. LeetCode questions, compile, execute, and evaluate solutions while interacting with an LLM in real-time.
- Enabled real-time feedback and performance summarization, leveraging AI-powered analysis to assess coding efficiency, interactions, problem solving ability, and correctness.