John Ieng

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EDUCATION

California Polytechnic State University - *San Luis Obispo, CA*   **08/2022 – 06/2025**

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, HTML, CSS, JavaScript, Typescript, React, Node.js, C#, ASP.NET Core, MongoDB, Next.js, MySQL, 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 systems
- Redesigned and implemented a paginated and filterable survey list page to optimize server-side data fetching
- Created dynamic filtering options integrated with the database, allowing precise data retrieval for users.

Hack4Impact   **08/2022 - Present**

Full Stack 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 50%
- Conducted comprehensive testing and debugging, ensuring API's reliability and seamless integration

Develop For Good   **04/2023 - 09/2023**

Full Stack 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**
- Integrated webhooks with Stripe's API to streamline payment processing and notifications
- Optimized Firestore database schemas with subcollections and batched writes for scalability and 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%.

Price Plate – Group Project | Next.js, TypeScript, MongoDB   **03/2024 - 06/2024**

- Utilized **Agile methodologies** to develop a recipe cost calculator to add/manage ingredients, create recipes, and calculate costs with unit conversions, storing data to individual accounts
- Guided the team through project milestones, ensuring effective communication and task prioritization
- Established **CI/CD** pipelines and oversaw task assignments, merging, and conflict resolutions