# Yoto Kim

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## EDUCATION

**University of California, San Diego** <span style="float:right">La Jolla, CA</span>

*Bachelor of Science in Mathematics-Computer Science, Minor in Cognitive Science* <span style="float:right">Sep 2022 – Jun 2026</span>

**GPA**: 3.96/4.00 — *Provost's Honors*

**Relevant Courses:** *Data Structures, Algorithms, Systems Programming, Software Tools and Techniques, Computational Theory, Computer Science Research, Data Science, Discrete Math, Linear Algebra, Statistics*

## EXPERIENCE

**Center for Energy Research** – **Software Development Intern** <span style="float:right">May 2024 – Present</span>

*Javascript, Typescript, React, React Native* <span style="float:right">La Jolla, CA</span>

- Engineered an iOS app featuring interactive data visualizations and educational models on clean energy
- Built a Bottom Sheet displaying **5** renewable energy sources for 1 of 8 global regions when selected on a map, implementing sliders that allow users to change energy source values and visualize the effects of the changes

**IBM Accelerate** – **Software Fellow** <span style="float:right">Jun 2024 – Jul 2024</span>

*JavaScript, React, React Testing Library, CSS, Express, Material UI, GitHub* <span style="float:right">Remote</span>

- Selected as **1 of 150 from over 10,000** applicants to complete weekly lectures, labs, and quizzes on full-stack development, testing, and software development cycle under IBM engineers and experts
- Developed a React to-do web application using Material UI for styling, utilizing an Express server for backend data persistence, and implemented REST API for CRUD operations

**Knight Lab** – **Deep Learning Researcher** <span style="float:right">Sep 2023 – Jun 2024</span>

*Linux, Python, TensorFlow, Pandas, NumPy, Matplotlib, Seaborn* <span style="float:right">La Jolla, CA</span>

- Fine-tuned an attention-based neural network with over **7,000** gut microbiome samples to predict an individual's diet given their microbiome profile
- Achieved a **20x lower** Mean Squared Error in predicting an individual's Total Dietary Fiber intake compared to the state-of-the-art Random Forest model
- Led model training sessions, tuning hyperparameters at each session, and wrote Python scripts to visualize performance through scatterplots and PCoA plots

**Juni Learning** – **Computer Science Instructor** <span style="float:right">May 2023 – May 2024</span>

*Python, Java* <span style="float:right">Remote</span>

- Conducted one-on-one programming classes for **10 students** ages 12-18 in Python and Java
- Taught topics ranging from syntax and object-oriented programming principles (objects, classes, methods) to sorting algorithms, data structures, and time complexity
- Refined existing curriculum with tailored custom projects and assignments, resulting in improved learning pace and student engagement

## PROJECTS

**Patriots and Paws** | *TypeScript, MongoDB, Express.js, Node.js, React, MaterialUI, Next.js* <span style="float:right">Jan 2024 – Jun 2024</span>

- Collaborated within a team of 7 developers to create a furniture item request interface for Patriots and Paws, a nonprofit that has **helped over 14,000 families** receive **over $11.5 million** in household items
- Constructed a MongoDB model for item requests and the API route for request submissions and edits using Express, applying validation rules for all fields
- Implemented frontend of item request forms, inventory updates, and form edits, building custom reusable React components (text field, multiple choice, drop down) and managing validation and submission with React Hook Form

**Demiya Website** | *JavaScript, React, Next.js, CSS, Git* <span style="float:right">May 2023 – Aug 2023</span>

- Created a restaurant website serving **300+** users daily from three locations
- Leveraged Google Lighthouse to identify areas of improvement, enhancing overall website performance by **50%**, accelerating speed index **sixfold**, and boosting search engine optimization by **15%**
- Designed a responsive and easy-to-navigate user interface to fit any screen size and embedded all restaurant location frames using Google Maps API

## SKILLS

**Languages**: Python, Java, C, C++, JavaScript, TypeScript, HTML5, CSS, MATLAB
**Libraries & Frameworks**: React, Node.js, Express, Next.js, Pandas, NumPy, Tensorflow
**Tools**: Git, GitHub, LaTeX
**Databases**: MongoDB