

# Vincentius Daniel Budidharma

858-729-4787 | [dharma.daniel2803@gmail.com](mailto:dharma.daniel2803@gmail.com) | [linkedin.com/in/vdanielb](https://www.linkedin.com/in/vdanielb) | [github.com/vdanielb](https://github.com/vdanielb) | [vdanielb.github.io](https://vdanielb.github.io)

## EDUCATION

### University of California San Diego

September 2023 - March 2027 (expected)

*Bachelor of Science, Data Science and Economics (Double Major). GPA: 4.0*

**Relevant Coursework:** Relational Database Management Systems, Advanced Data Structures and Algorithms, Object-oriented Programming, Introduction to Machine Learning, Practice and Application of Data Science

## SKILLS

**Languages:** Java, Python, SQL, HTML/CSS, TypeScript, JavaScript

**Tools:** Amazon Web Services (AWS), Git, Power BI, Jupyter, PyCharm, IntelliJ

**Libraries/Frameworks:** Spark, React.js, Next.js, Electron.js, Pandas, sklearn, BeautifulSoup

## EXPERIENCE

### Back-End Developer

January 2025 – Present

*Engineers for Exploration: Acoustic Species ID*

- **Streamlined labeling 15,000+ audio clips of 630+ animal species** from the Amazon rainforest for clients in the **San Diego Zoo and National Geographic** by building a React-based annotation pipeline app, accelerating training of our audio-based species identification model
- Designed and deployed a relational database system to keep track of annotations, avoiding data anomalies and redundancies, and supporting database switching, data entry, and querying by users
- **Ideated and crafted SQL queries** to keep track of important metrics such as annotation progress, model accuracy, and species population over time. **Sped up loading by 30 seconds** by implementing server-side pagination
- Demonstrated new features to clients to ensure effective adoption and usage

### Head of Web Development

October 2025 – Present

*San Diego Indonesian Association*

- Built the club's first website at <https://www.permiassdia.com> using React and NextJS
- Saved \$5/month by migrating the back-end to a free serverless hosting service
- Strengthened club brand and network by building a **PostgreSQL database of alumni, events, and photos** to showcase on the website, complete with search and filtering

### Undergraduate Data Science Tutor

March 2024 – Present

*University of California San Diego*

- Tutored 100+ students per quarter in Data Structures and Algorithms, Java, Python, Pandas, Regression, Probability, Hypothesis Testing
- Taught a systematic approach to debug code, building problem-solving skills
- Authored and published detailed solution guides via course websites, expanding learning resources
- Beta-tested 10+ projects and exams to identify ambiguities and recommend refinements

## PROJECTS

### Data Visualization of Food Waste in the United States

June 2025

<https://vdanielb.github.io/FoodWasteWatch/>

- Built an **interactive dashboard** using D3.js to **visualize 10,000+ rows across 3 tables** of complex U.S. food waste data into accessible visual stories, helping users grasp the scale and personal impact of the issue
- Awarded Best Project in a data visualization course for effective storytelling and design

### Machine Learning Project: Is American Food Unhealthy?

March 2025

<https://vdanielb.github.io/RecipesAnalysis/>

- **Scraped over 80,000 rows** from food.com using BeautifulSoup to investigate American food healthiness
- Trained 2 machine learning models using sklearn: a **Random Forest Classifier** model that predicts if a recipe is American or non-American with an accuracy of 89%, and a **Random Forest Regression** model to predict the cooking time of a recipe based on ingredients used, steps, and calories
- Used **GridSearchCV** and performed feature engineering to further increase model accuracy by 4%