PHU N DANG | dangnphu31@gmail.com

(669) 274-8956 | pndang.com *(personal portfolio)* **| linkedin.com/in/phungocdang | github.com/pndang**

EDUCATION

UNIVERSITY OF CALIFORNIA SAN DIEGO | GPA: 3.709 **Exp. Graduation Date: June 2025**
Data Science, BS - Real Estate & Development, BS – Urban Studies & Planning, Minor *(double-major + minor)*

EXPERIENCE

BIOKIND ANALYTICS | Healthcare Non-profit | La Jolla, CA **Sep 2022 – Present**
President & Data Analyst

- Manage organizational leadership, budget, marketing, outreach, and recruitment activities
- Collaborate with local healthcare non-profits throughout San Diego to discuss potential avenues for data science to improve operational efficiency, impact, client satisfaction, and return on investment
- Oversee and participate in student data science projects to ensure quality, timely delivery, and meet clients' expectations; facilitating opportunities for students to apply academic knowledge in impactful, real-world scenarios
- Collaborate with clients to analyze complex operational/financial datasets in identifying key metrics and actionable insights, leading to improved client understanding of programs, initiatives, and research grants performance
- Organize discussions/meetings with university teaching faculty, department advisors, and non-profit representatives

NIEMA LAB | Computer Science & Engineering | La Jolla, CA **Sep 2022 – Oct 2023**
Data Science Trainee & Researcher *(Mentor – Dr. Niema Moshiri)*

- Developed an interactive application to visualize Covid-19 time-series data with variant segmentation
- Programmed robust computational algorithms to dynamically smooth data upon input parameters and update graph
- Optimized app by reducing 97% of initial runtime through memoization and efficient data structure implementation
- Benchmarked data compression techniques to optimize serialization efficiency and expedite loading speed
- Wrote 7 research notebooks to uncover patterns in 30+ large-scale datasets involving 3000+ cancer patients
- Exceeded 87% accuracy across diverse evaluation metrics, in accurately predicting breast cancer recurrence status
- Analyzed disparities and data collection gaps to ensure ethical and responsible data science practices
- Implemented and assessed solutions to handle imbalanced data for reliable predictions
- Applied robust false discovery correction for reliable statistical conclusions

GOING SOLO | Business Intelligence & IT Consulting | Johannesburg, South Africa **Jun 2022 – Aug 2022**
Lead Data Analyst Intern

- Implemented a character-based word embeddings model to improve words/phrases cognition for text classification
- Developed an automated Bayesian text classifier to streamline data labeling processes
- Analyzed an S&P 500 stock/financials and developed an interactive dashboard in Tableau
- Enhanced and maintained a PM dashboard, enabling real-time progress tracking/reporting to supervisors
- Managed projects and led team communications across 7+ time zones for effective collaboration and timely delivery

DELOITTE Data Science Mentorship Program | Business Consulting | San Diego, CA **Feb 2022 – May 2022**
Data Science Mentee

- Utilized ARIMA models to generate employment metric forecasts and predict market behaviors due to Covid-19
- Conducted in-depth analysis to extract actionable insights using multiple linear regression, EDA, and visualization
- Collaborated closely with a mentor from Deloitte, receiving personalized guidance and support on a weekly basis
- Presented findings to an audience of Deloitte practitioners and advisors from the Halıcıoğlu Data Science Institute

PROJECTS

Solar-Powered Smart Lighting for Sustainable Living | Team Project
Built a solar-powered IoT device capable of collecting live sensor data, adjusting lighting, sending data to a MySQL database using MCU Wi-Fi with synchronous communication and developed a data processing script to query/transform/visualize data.

Illuminating Cognizance | Personal Project
A comprehensive look into major power outages in the U.S. to assess (1) statistical relationships through exploratory analysis, hypothesis testing, data missingness assessment, and (2) predictive power using supervised machine learning models and feature engineering, built in pipelines with evaluation comprising diverse accuracy metrics and cogent assessments.

SKILLS & ACTIVITIES

- Python (Pandas, NumPy, SciPy, Matplotlib, Seaborn, Dash/Plotly, Sklearn, PyTorch), R, SQL, Java, C, HTML, CSS, Jekyll, Tableau, Excel/Power BI, GitHub, VSCode/IntelliJ/Arduino/G-Colaboratory, Bilingual Fluency w/ Vietnamese
- **LEED® Green Associate™** *(IP)*, **Etkin Scholar** @ Urban Land Institute, **Affordable Housing Assistant Research Fellow** & **Data Science Fellow** @ UCSD Urban Studies & Planning Dept. & Homelessness Hub, **Officer** & **Player** on UCSD Men's Club Water Polo Team ***(2022 National Champion)***, DS3 **Workshops Committee Member** *(BI & SWE)*
- **Honors/Awards**: 2x UCSD PACE Fellow Scholarship, Roosevelt College Honors Program, Provost Honors, 36th URC