

CAMILLE DUNNING

(949) 395-6217 • adunning@ucsd.edu • La Jolla, CA 92037

EDUCATION

Expected in Jun 2023
La Jolla

Bachelor of Science in Data Science

University of California San Diego

- **Relevant Coursework:** Computer Vision, Machine Learning, Deep Learning for NLP, Databases, Robotics Perception and Navigation, Systems for Scalable Analytics, Data Visualization, Data Mining, Graph Theory, Mathematical Reasoning
- **Extracurricular Activities:** Data Science Student Society former Online Content Director and Tech Lead, Entrepreneurs' Club former VP Internal, Blackstone Launchpad and StartR Incubators, IEEE Quarterly Projects, IEEE Project Drive, DataHacks 2022 mentor
- **Scholarships:** Halicioğlu Data Science Institute Industry-Sponsored Scholarship Recipient, HDSI Undergraduate Scholarship Recipient
- **Awards:** DataHacks 2021 Advanced Track winner, Data Science Alliance Data Visualization Contest Winner
- Research Intern at Qualcomm Institute - UC San Diego Division of Calit2 (2020)

PROFESSIONAL SUMMARY

Research-driven and highly organized Data Science student bringing articulate communication skills and strong attention to detail. Dedicated, responsible and eager to grow abilities while boosting operational success.

SKILLS

- Probability and Statistics
- Linear Algebra and Calculus
- API Design and Development
- RDMS Development and SQL
- Databases: Oracle, MongoDB
- Robotics Development
- Natural Language Processing
- Computer Vision
- Source and Version Control: Git, GitHub
- Cloud Infrastructure and Tools: AWS, Terraform, Dask, PySpark, Apache Camel, Snowflake
- Multimodal and Deep Learning, Reinforcement Learning

WORK HISTORY

May 2022 - Current
La Jolla, CA

Machine Learning Intern / San Diego Supercomputer Center

- Machine Learning for cyberinfrastructure (Voyager and Expanse supercomputers)

Jan 2022 - Current
Santa Clara, CA

Incoming Jetson Embedded Programming Intern / NVIDIA

- Robotics, Smart Cities, IoT, Edge AI
- Fall 2022

Jan 2022 - Current
San Francisco, CA

Incoming Software Engineering Intern (Security) / Salesforce

- Heroku Defensive Operations Team

- Summer 2022

Mar 2021 - Sep 2022
San Diego, CA

Open Source Developer (Part Time) / Tangible AI

- Contributed to the Python chatbot framework, qary, by implementing merging of different linear conversations into a graph structure based on intent, and listed as a contributing author to the best-selling NLP in Action, 2nd Ed.

Jul 2021 - Dec 2021
La Jolla, CA

Co-Founder and CTO / Cluvii

- Sole backend, ML developer on up-and-coming mobile social media app, participating in the Incubator track in the UC San Diego Blackstone Launchpad and Rady StartR accelerator
- Building Django REST API and using Terraform, Docker, Nginx proxies, GitLab, AWS CI clusters (EC2, ECR, ECS, S3) for scaling and DevOps deployment automation

Jun 2021 - Aug 2021
San Francisco, CA

Data Engineering Intern / BlackRock

- Built a prototype ETL pipeline for a cloud data warehouse in Snowflake and integrated with reporting systems, parallelized operations with Apache Camel Seda.
- Processed Camel logging files with Python and visualized trends in cost, ingestion/reporting time on CPU cycles.
- Stack: Java, SQL, Spring Framework, Spring Boot, Apache Camel, Ignite, Spark, JMeter

Nov 2020 - May 2021
San Diego, CA

Data Science Intern / Blooma

- Built a machine learning pipeline and FastAPI from scratch to extract key information from rent roll documents and reduced time for data labeling and processing procedures from weeks to seconds.

May 2020 - Sep 2020
La Jolla, CA

Research Intern / Scripps Research Translational Institute

- Supervised by Professor Giorgio Quer, used signal dynamics methods such as cross-correlation to prove that trends of one vital function can be predicted from that of another.
- Solo paper published on ArXiv.

PROJECTS

- HDSI Undergraduate Research Scholarship research Developed RL policy network scheme to select measurement vectors that will efficiently describe an unknown binary vector with a small number of measurements. Solution is exponentially faster than non-adaptive and adaptive algorithms from previous research, and supports more dense binary vectors. Chosen as best research project out of 20+ HDSI UGrad scholarship winners, and selected to present my work to the California Alliance for Data Science Education, based at UC Berkeley. Mentored by Professor Tara Javidi.
- Sigmet, an end-to-end solution for measuring negative price shocks in financial data, over 1,000 downloads on PiPy.
- Arpagen, an dataset and RNN benchmark for text generation based on phonetic translations.
- Multi-Touch and Probabilistic Attribution Modeling and Budget Optimization Engine
- Fusion of camera and 2D LiDAR data using ROS2 and a Kalman filter