

Nick Cortale

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nickcortale.com
github.com/nickc1

Passionate. Founder of a popular data science meetup with over 100 members.

Published. Python package published in *The Journal of Open Source Software*.

Full stack. Able to build cloud infrastructure, pipelines, APIs, models, and frontends.

EXPERIENCE

Live Oak Bank — Data Scientist

APR 2017 - PRESENT

- Lead a small team to deploy an internal website (fastapi backend and react frontend) that identified leads via a sklearn model. The web platform resulted in \$30+MM of closed loans.
- Defined six month data collection project and built a simple model which resulted in \$2+MM of savings.
- Built out airflow data pipeline and data warehouse to aggregate legacy data systems. Data is used daily to shape major corporate strategy.

UNC-Wilmington — Research Tech, Research Assistant, Teaching Assistant

JUN 2013 - APR 2017

- Developed a python package that analyzed near neighbors to quantify the health of coral reefs given the species distribution. The software and the analyses resulted in two publications.
- Built a convolutional neural network in tensorflow that was able to distinguish healthy coral from dead/diseased coral allowing biologists to easily quantify ecosystem health.
- Designed, built, and deployed a solar powered, remote camera system using raspberry pis. The system was used to collect beach morphology data and cost 10% of the industry standard.
- Cleaned and analyzed spatiotemporal beach morphology data in order to understand long term behavior. The analysis was published in the journal *Chaos*.

National Estuarine Research Reserve — Data Analyst

DEC 2012 - JUN 2013

- Aggregated data from multiple research reserves and produced the first aggregate time series visualization allowing managers to easily see long term trends.

EDUCATION

UNCW, Wilmington, NC — M.S. Oceanography

AUG 2013 - DEC 2015

UNCW, Wilmington, NC — B.A. Physics, B.S. Environmental Science, Minor Mathematics

Aug 2009 - May 2012

TECHNOLOGIES

Languages: python (pandas, numpy, scikit-learn, keras, altair, airflow, matplotlib, jupyter, sqlalchemy, flask, fastapi, mkdocs), sql, javascript (react, redux, d3.js), html, css, bash, matlab, R, latex

Software/Cloud: docker, redshift, elasticsearch, postgres, sqlite, redis, superset, tableau, bigquery, ec2, s3, RDS, traefik, nginx, vim, tmux