CHRISTOPHER DENQ

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SUMMARY

Experience with big data analytics, machine learning, database engineering, and full-stack software development. Unique background in **art market** confers drive to **understand topics holistically**, strong prioritization of **product sense**, and ample work-experience on **diverse teams**. **Avid self-learner** and **serial project-builder** who strives to constantly grow, **empower others**, and add value to the community.

EDUCATION

Foothill College | Los Altos Hills, CA

Visiting Student, Mathematics and Computer Science

Apr 2022 - Sep 2022

- Honors: Campus Business Innovation Challenge, 2022 (\$500 for risk prediction ML prototype)
- Course Topics: Linear Algebra, Statistics, Multivariate Calculus, Intermediate OOP, Cloud Computing

Self-Taught | Fairfax, VA

Fundamentals of Machine Learning for Predictive Analytics by Kelleher, Namee, D'Arcy

Nov 2021 - May 2022

University of Pennsylvania | Philadelphia, PA

Bootcamp Certificate in Data Analytics and Visualization

Sep 2021 - Mar 2022

Bachelor of Arts, Double Major in Philosophy and Art History

Aug 2015 - May 2021

- Honors: John C. Parker Fellowship, 2016 (\$500 for statistical research in game theory model)
- Course Topics: Machine Learning, Data Analytics, Database Engineering/Pipelines, Server Deployment, Fullstack Software Development

SELECTED PROJECTS

Full-Stack Machine Learning Web-App: Mushroom Edibility Predictor

Mar 2022

Python (SKLearn, Flask, Matplotlib), HTML/CSS/JS

github.com/cdenq/mushroom-edibility-predictor-web-app

- Full-stack web app that utilized mushroom data to predict edibility of mushrooms with user inputted features
- Trained 7 ML models on 60k+ data points to predict its edibility to within 80-99% accuracy, created 8 EDA graphs

Tableau Story: Bike Sharing Business Dashboard

Feb 2022

Tableau, Tableau Server

github.com/cdenq/bike-sharing-tableau-dashboard

• Analyzed 650k data points over 12-month period for CitiBike; created 7 pages and 11 graphs/visualizations

Full-Stack Interactive Web Dashboard: Market Metrics on Video Game Industry

Jan 2022

Python (BS4, Flask, Matplotlib), MongoDB, HTML/CSS/JS (Plotly, Leaflet)

github.com/cdenq/web-dashboard-of-video-game-industry

- Full-stack web app that scraped market metrics on the video game industry and dynamically visualizes based on user input
- Analyzed 10k data points, maintained 5 MongoDB collections, created 19 visualizations

RELEVANT EXPERIENCE

PNC Financial Services Group | Data Analyst Intern | Harrisburg, PA

Jun 2022 – Aug 2022

- Creates insightful data products for mid-upper management of 5+ teams to monitor team performance, health, risk, and capacity
- Takes initiative in scaling and automation by introducing Python and ML/AI solutions to enhance standard SQL process
- Successfully contributed 6 live dashboards used by 10+ managers and 80+ team members across 2 departments

2U - Trilogy Education Services | Fullstack Teaching Assistant | Atlanta, Georgia

May 2022 – Aug 2022

- Tutors 5-7 students on weekly basis; accumulated 60+ hours in teaching Fullstack Development and Data Analytics curriculum
- Successfully performs code reviews, provides feedback on projects, and teaches code to 13 students spread across 8 bootcamps

California State University: Northridge | Machine Learning Research Assistant (Internship) | Northridge, CA

Nov 2021 – May 2022

- Researched graduate-level ML material, edited/created 280+ class slides, 10+ Java-to-Python code conversion samples
- Succeeded in collaborating, designing, and coding for graduate-level ML course curriculum with Professor Wen-chin Hsu

Wyzant.com | AP Computer Science Instructor | Online

Sep 2021 – May 2022

- Tutored 25+ students from high school to adult learners for 65+ hours; topics range from AP Computer Science to Intro. ML
- Succeeded in adapting teaching style, clearly communicating abstract computer science concepts, and mentoring students

Christie's Auctions & Private Sales | Gallery Intern/Student | New York, NY

Jun 2020 – Aug 2020

- Contributed to 6+ reports, appraisals, and collection package documentation; attended 3+ onsite auctions, hilling meetings
- Succeeded in helping Christie's adjust to accelerated digital marketplace and understand its market role amidst pandemic

Oasis Commissary (Non-Profit), University of Pennsylvania | Founder / Philadelphia, PA

Sep 2016 - Mar 2020

- Started non-profit to address local community issue in dorm; wrote grant proposal to Dean, obtained vendor license from Philadelphia city
- Start-up succeeded and absorbed by Penn University; managed 21 staff, 2 managers, \$2000 bi-monthly budget, 6 marketing campaigns
- Succeeded in initiating own business development education, serving college dorm 3 years: \$1300 gross, 22k purchases, 180 unique clients

SKILLS AND FRAMEWORKS

Languages: Python (OOP), Java, SQL (PostgreSQL), NoSQL (MongoDB), HTML/CSS/JS, APIs, Git

Machine Learning: SKLearn, Keras, TensorFlow, PyTorch, Scipy, web-scraping

Cloud & DevOps: Google GCP, Google Collab, Hadoop/Spark, Docker, Github Pages, AWS, Microsoft Azure
Visualization Tools: Tableau, Google Sheets/Apps Script, Google Suite, Excel/VBA, Python (Matplotlib, Seaborn)

HOBBIES