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

Stanford University | Stanford, CA
Visiting Student, Computer Science — Sep 2022 – Dec 2022
- **Course Topics:** Computer Organization and Systems, Mathematical Foundations of Computer Science

Foothill College | Los Altos Hills, CA
Visiting Student, Mathematics — Apr 2022 – Sep 2022
- **Honors:** Campus Business Innovation Challenge, 2022 ($500 for risk prediction ML prototype)
- **Course Topics:** Linear Algebra, Differential Eqns., Discrete Math., Statistics, Multivariate Calc., Cloud Computing, Intermediate OOP

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
Certificate in Data Science (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

RELEVANT EXPERIENCE

PNC Financial Services Group | *Data Analyst Intern* / Harrisburg, PA — Jun 2022 – Aug 2022
- Takes initiative in scaling and automation by introducing Python and ML/AI solutions to enhance standard SQL process
- Successfully created 8 data products used by 10+ managers, 80+ team members to monitor team performance, health, risk, and capacity

2U – Trilogy Education Services | *Data Analytics Teaching Assistant* | Atlanta, Georgia — May 2022 – Aug 2022
- Tutors 5-7 students on weekly basis; accumulated 60+ hours in teaching 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

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

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

Resource-Management Boardgames • Escape Room ("Record Runs") • Esports Coaching (Paladins): NA Grandmaster Rank (Top 0.01%)