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CHRISTOPHER DENQ

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
Associates of Science in Mathematics and Computer Science   April 2022 – September 2022
- **Honors:** Business Innovation Challenge, 2022 ($500 for risk prediction ML prototype)
- **Course Topics:** Statistics/Probability, Multivariate Calculus, OOP Programming, Cloud Computing

University of Pennsylvania, College of Arts and Sciences   Philadelphia, PA
Bootcamp Certificate in Data Analytics and Visualization   September 2021 – March 2022
Bachelor of Arts, Double Major in Philosophy and Art History   August 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

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)

SELECTED PROJECTS / SELF LEARNING (More on GitHub)

Full-Stack Machine Learning Web-App: Mushroom Edibility Predictor   March 2022
Python (SKLearn, Flask, Matplotlib), HTML/CSS/JS   github.com/cdenq/mushroom-edibility-predictor-web-app
- Full-stack web app that utilizes 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

Full-Stack Interactive Web Dashboard: Market Metrics on Video Game Industry   January 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   Harrisburg, PA
Data / Business Analyst Intern   June 2022 – August 2022
- Contributes to 4+ internal PNC teams across 6 software and data projects to metricize, optimize, and forecast team performance
- Initiative in scaling-and-automation by introducing Python software prototypes to predominantly SQL-driven team
- Attends meetings to understand data requirements, writes efficient SQL to query on-scale, and automates generation of Tableau dashboards

California State University: Northridge, College of Engineering and Computer Science   Northridge, CA
Machine Learning Research Assistant (Internship)   November 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

2U – Trilogy Education Services, Wyzant.com, Local   Various
Teaching Assistant for Data Science Program, Wyzant AP Computer Science Instructor, Volunteer Tutor   September 2021 – Present
- Teach computer science to 25+ students for 65+ hours in 3+ settings: as TA with 2U bootcamps, freelance instructor, and volunteer tutor
- **Succeeding** in clearly communicating abstract ideas, listening well to understand students' problems, and adapting teaching style

Christie's Auctions & Private Sales   New York, NY
Gallery Intern / Student   June 2020 – August 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   Philadelphia, PA
Founder and Executive Business Operations Manager   September 2016 – March 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

HOBBIES

Resource-Management Boardgames • Escape Room ("Record-Runs") • Esports Coaching (Paladins), Peak Top 35 GM - NA