

CHRISTOPHER DENQ

SUMMARY

Experienced in fullstack software development, data analytics, machine learning, and database engineering. Unique background in **art market** confers better data-driven storytelling and strong understanding of product impact within business environments. **Avid self-learner** and **serial project-builder** who strives to constantly grow, **empower others**, and add value to the world.

EDUCATION

Foothill College Los Altos Hills, CA
Visiting Student / Associates of Science in Mathematics and Computer Science Present

- **Course Topics:** OOP Programming, Statistics/Probability, Linear Algebra, Multivariate Calculus, Cloud Computing

University of Pennsylvania, School of Engineering and Applied Sciences, College of Arts and Sciences Philadelphia, PA
Bootcamp Certificate in Data Analytics and Visualization March 2022
Bachelor of Arts, Double Major in Philosophy and Art History May 2021

- **Honors:** John C. Parker Fellowship, 2016 (\$500 for statistical research in game theory)
- **Course Topics:** Machine Learning, Big Data Analytics, Database Management, Fullstack Development

SELECTED PROJECTS (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 (Flask), MongoDB, HTML/CSS/JavaScript github.com/cdenq/video-game-performance-scraper-and-web-dashboard

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

RELEVANT EXPERIENCE

PNC Financial Services Group Harrisburg, PA | Remote
Incoming Summer Data Analyst Intern June 2022 – Aug 2022

- Will analyze data metrics, create statistical models, and present findings to supervising team to impact business operations
- Will work extensively with software via Python, SQL, Tableau; opportunity to develop for AI/ML department

California State University: Northridge, College of Engineering and Computer Science Northridge, CA
Fall/Spring Machine Learning Research Assistant November 2021 – May 2022

- Researched graduate-level ML material, created 12+ class slide decks, 10+ Python code samples; assisted with curriculum
- **Succeeded** in researching, designing, and coding for graduate-level ML course with Professor Wen-chin Hsu

2U – Trilogy Education Services, Wyzant.com, Local Various
Incoming 2U Data Analytics Teaching Assistant, Wyzant AP Computer Science Tutor, Volunteer Tutor Sep 2021 – Present

- Will teach/tutor for Georgia Tech Data Analytics bootcamp as 2U Teaching Assistant for summer session
- Taught computer science to 25+ students for 65+ hours: from coding fundamentals to data structures to ML topics
- **Succeeded** in adapting teaching style, clearly communicating abstract computer science concepts, mentoring students

Christie's Auctions & Private Sales New York, NY
Summer Intern 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

SKILLS AND FRAMEWORKS

- **Languages:** OOP Python, Java, R, SQL (PostgreSQL), NoSQL (MongoDB), HTML/CSS/JS
- **Libraries/Frameworks:** SKLearn, Keras, TensorFlow, PyTorch, Pandas, RESTful APIs, web-scraping
- **Cloud Tools:** Hadoop/Spark, Docker, GCP Cloud Run, Google Collab, Git, AWS
- **Visualization Tools:** Tableau, Excel/VBA, Google Sheets/Google Apps Script

HOBBIES

Sudoku • Chess • Riddles • Escape Rooms • Resource-Management Boardgames