

SUMMARY

Experience with full-stack software development, database engineering, machine learning, and data analytics. 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

Associates of Science in Computer Science and Mathematics

Los Altos Hills, CA
April 2022 – September 2022

- **Honors:** Business Innovation Challenge, 2022 (\$500 for risk prediction ML prototype)
- **Course Topics:** OOP Programming, Cloud Computing, Statistics/Probability, Multivariate Calculus

University of Pennsylvania, College of Arts and Sciences

Bootcamp Certificate in Data Analytics and Visualization

Philadelphia, PA
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:** Fullstack Software Development, Server Deployment, Database Engineering/Pipelines, Machine Learning, Data Analytics

SKILLS AND FRAMEWORKS

- **Languages:** Python (OOP), Java, SQL (PostgreSQL), NoSQL (MongoDB), HTML/CSS/JS, Git
- **Libraries/Frameworks:** SQLAlchemy, Pymongo, Flask, Jinja, APIs, web-scraping
- **DevOps & Cloud:** Amazon AWS, Docker, Github Pages, Google Collab, Google GCP, Microsoft Azure
- **Peripheral Technologies:** Machine Learning (SKLearn, Hadoop), Data Viz (Tableau, Excel/VBA, Microsoft Office Products)

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 and Tutor for Fullstack Coding Programs, 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