

RACHIT CHADHA

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EDUCATION

University of Maryland, College Park, MD

Aug 2016 - May 2020

B.S. Computer & Information Science, Data Science specialization, Major GPA: 3.7

Awards: Academic Honors Spring 2020 (Semester GPA: 3.94), Academic Honors Fall 2018 (Semester GPA: 3.49)

Relevant Courses: Database Design & Modeling (A-) | Advanced Data Science (A+) | Technology Infrastructure & Architecture (A) | Data Visualization (A+) | Decision Making Analysis (A-) | Competitive Business Intelligence (A) | Privacy & Ethics Big Data (A)

Certifications: Institute of Asset Management | Google Digital Marketing | Oracle Primavera Project Management

Skills: Python (Pandas, Scikit-Learn, TensorFlow, PyTorch, BS4, Seaborn) | JavaScript | Java | C++ | R | SQL (MS / Oracle) | Spark | Hadoop | Hive | GCP | AWS | Git | HTML | CSS | Power BI | DAX | Tableau | Google Analytics | Agile Project Management | Asset Management | MS Office Suite

PROFESSIONAL EXPERIENCE

Data & Analytics Consultant, Turner & Townsend AMCL, New York, NY

Apr 2022 – Present

- Leading data analytics for capital projects with the US Housing & Urban Development for NYC Housing Authority's ~200K housing assets
- Created dynamic dashboards for a \$3.3 billion asset cluster using Power BI, sourcing through SQL management servers & Azure Virtual machines to monitor & improve NYC Housing Authority's asset management capabilities
- Data migration & manipulation with PowerBI DAX & Python for designing performance metrics to track asset outage, performance & cost
- Developed Python scripts to automate scraping & clustering of periodic reports for asset condition information using Python's SharePlum, Pandas & Scikit-learn libraries. Script scrapes bi-weekly field team reports for keywords and clusters them based on similarity group
- Automated weather data sourcing to monitor precipitation impacts using Python's Selenium library hosted on Google Cloud Platform

Project Controls Engineer, Aegis Project Controls, Washington DC

Aug 2020 – Mar 2022

- Consulted clients on engineering projects related to energy, education & government, with individual projects valued at over \$200 million
- Designed automated Dashboards using PowerBI & Power Query to generate insights & recommendations on project health, cost & progress
- Developed Python scripts to collect contractor project data sourcing from a SQL-hosted server to a virtual cloud environment

Analytics Research Assistant, University of Maryland, College Park, MD

Aug 2019 – May 2020

- Designed a web simulation with an agile approach to teach cybersecurity & collaboration in STEM, funded by the National Science Foundation
- Devised a learning analytics system using REST API interface with Python & MySQL & integrated it into the University's AWS infrastructure
- Spearheaded a research initiative to scrape, visualize & present game mechanics' data to Brigham Young & Indiana partner universities

Marketing Analyst Intern – eSports, Intel Corporation, Singapore

May 2019 - Aug 2019

- Formulated project plan for Intel Extreme Masters 2020 to increase reach across Asia Pacific's 40 million eSports viewers
 - Developed, managed & executed 2 product strategy campaigns for APJ & ANZ regions within the Games & eSports team
 - Scraped, analyzed & visualized data for the eSports industry from Twitch & Steam via Python, Twitch API & Power BI
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CO-CURRICULAR ACTIVITIES

Teaching Assistant, University of Maryland, College Park, MD

Aug 2019 - Dec 2019

- Facilitated discussions & graded assignments for Organizational Design at the University of Maryland iSchool
- Assisted with material generation, lesson plan development, exam distribution & mentoring & held office hours for 50 undergraduate students

Information Science Ambassador, University of Maryland, College Park, MD

Jan 2020 - June 2020

- Assisted academic advisors in tending to admitted & prospective student inquiries as the Information Science undergraduate representative
- Developed a visualization tool to give insights on staffing for busy weeks

Co-Founder & Director of Engagement, Kappa Theta Pi - Professional Technology Fraternity, College Park, MD

Aug 2017 - May 2020

- As Founding Board Member & Engagement Director orchestrated technical development workshops on Python, PowerBI & Brand
- Engaged students with workshops on diversity & inclusion & developed a database of university resources for mental health counseling

Mentor, Bit-Camp Hackathon, College Park, MD

Mar 2019 - Apr 2019

- Assisted students in Software development, UX design & Data Visualization at the University of Maryland's flagship hackathon
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PROJECTS

- **Customer Churn Classification** Performed data cleaning & feature engineering using Python's Scikit-learn & TensorFlow to classify the churn rate of Telco customers using supervised learning models such as Light GBM, Logistic Regression & Support Vector Classifier.
- **Marketing Data Analytics** Analyzed user data for an e-learning platform using Python's NumPy, Pandas, Seaborn & Matplotlib libraries to generate insights for increasing user engagement by tracking web KPIs such as churn rate, bounce rate, page exits, visits, searches, etc.
- **Tableau Web Application** Developed a web application with map visualizations using Tableau API of housing violations in PG county, MD, for prospective homeowners. The server uses the Fetch API to GET information from PG County open-data portal visualized with Tableau.
- **SQL Database Design** Collected data on the original 1999 Yu-Gi-Oh cards, created tables & an Entity Relationship Diagram & developed a database using MySQL Workbench. Also, created varied views & queries to pull attributes as per user needs.