HONGCHAO HU

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SKILLS

- **Programming:** Python (Pandas, SageMath, Seaborn), Java,
- **Data Visualization:** Tableau, Power BI, Dashboards
- **Data Management Tools:** MySQL, SQL Server, Jupyter Lab, Excel
- **Methodologies:** Data Cleaning, Data Wrangling, Data mining, Split Testing, Predictive Modeling
- **Workflow:** Agile, Waterfall, JIRA, BPMN Diagram

EDUCATION

Worcester Polytechnic Institute   **Aug 2025 - May 2027**
- *Master of Science in **Data Science***

The University of California San Diego   **Sep 2020 - Jun 2024**
- *Bachelor of Science in **Mathematics and Computer Science***
- *Minor in **Business Economics***

WORK EXPERIENCE

Mega InfoTechs   **Jun 2024 – Jan 2025**
Data Analyst | San Jose, CA
- Performed exploration data analysis using **Python (Pandas, SageMath)** to identify product usage inefficiencies and optimize feature rollout timing, decreased developing-wide operational costs by 2%.
- Built **interactive Tableau and Jupyter dashboards** to visualize user adoption metrics with stakeholder decisions.
- Used **MySQL** to extract product telemetry data, conducted cohort analysis to define schema requirements.
- Through **Aris** monitored feature-level tracking metrics for platform usage; authored actionable roadmap insights.

Mobalytics   **May 2023 - Sep 2023**
Data Analyst Intern | Santa Clara, CA
- Analyzed customer behavior, retention, and churn metrics across regions using Panda in **Jupyter Lab**.
- Developed forecasting models by **Scikit-learn and SciPy** to predict market trends and optimize monetization strategy; present the model by **MS Power BI**, eliminate erroneous deliveries by 50%
- Used **Python and Excel** to segment users and evaluate A/B test results on feature launches and platform changes; visualized time-series product data in **Tableau** to uncover trends in session length, engagement, and conversion.
- Finalized analysis report by defining Epics, Features, and compiling BDD user stories in **JIRA**, aligning technical solutions with overarching business strategies.

American Express   **May 2021 - Aug 2022**
Data Analyst Intern | Los Angeles, CA
- Conduct **AWS Cognito** access and **SQL database** integration to extract and clean data from vendor systems databases, facilitating cross-region data sharing; validated multi-source flow reports for internal performance tracking.
- Collaborated with cross-functional teams to assist in modeling design and impact analysis for compliance feature rollouts; implemented continuous API integration (CI) via **Azure** Build Pipeline.
- Crafted a **Waterfall SDLC** roadmap for cross-border financial services, ensuring compliance with international licensing.

CTA (Central Telecom America)   **Jun 2020 – Sep 2021**
Data Entry Analyst | Part time
- Created backend transaction flow API using **MySQL**, enhancing data processing speeds by 13%; analyzed merchant fulfillment data to monitor delivery efficiencies and modeled growth-stage KPIs across seller segments.
- Built AWS-based reporting pipelines and structured reports in **Excel** to support early-stage seller performance tracking and operational scoring, documented merchant-side systems to support data-driven performance tracking.

PROJECT

Microservice Data Base API Development   **Dec 2022 – May 2024**
- Designed Microservice APIs to streamline data retrieval, reduce third-party dependency, and documented system architecture with BPMN flows.
- Documented data architecture and use cases to simulate user interaction flows and retrieval pipelines.

Professional Certifications
- Professional Scrum Master™ II **(PSM II)** Issued by Scrum.org
- Professional Scrum Product Owner™ II **(PSPO II)** Issued by Scrum.org
- Microsoft **Power BI Data Analyst** Professional Certificate Issued by Coursera