

HONGCHAO HU

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SKILLS

- **Programming:** Python (Pandas, SageMath, Seaborn, Scikit-learn), Java
- **Data Visualization:** Tableau, Power BI, Dashboards, d3.js
- **Data Management Tools:** MySQL, SQL Server, MapReduce infrastructure, Spark, HBase, NoSQL Databases
- **Methodologies:** Data Cleaning, Data Wrangling, Data mining, Split Testing, Predictive Modeling
- **Methodology:** Agile/ Waterfall, Sequence Diagram, LucidChart
- **Project Management:** Jira, MS Office, BPMN, UML, User Case Diagram
- **Business Process Improvement Tools:** ARIS, MS Visio

EDUCATION

Worcester Polytechnic Institute

Aug 2025 - May 2027

- *Master of Science in Data Science | GPA: 3.6*

The University of California San Diego

Sep 2020 - Jun 2024

- *Bachelor of Science in Mathematics and Computer Science | GPA: 3.12*
- *Minor in Business Economics*

WORK EXPERIENCE

Thaddeus Resource Center

Jan 2026 – Present

Data Development Intern | San Dimas, CA | Hybrid Remote

- Collected, cleaned, and integrated program, donor, and grant datasets using **Python and NoSQL storage**; performed exploratory data analysis to assess program outcomes and funding trends.
- Optimized scalable data workflows using **Spark** with **HBase-backed** datasets for multi-source operational data.
- Built interactive data visualizations and dashboards using Tableau and D3.js to communicate key metrics, trends, and insights to executive and operations stakeholders. Guided grant prioritization and resource allocation.

Tanbii

Oct 2025 – Jan 2026

CRM Data Analyst Intern | Remote

- Collected and processed Discord and in-game behavioral data using **Statbot and MySQL** to uncover retention patterns; applied predictive analytics and clustering to segment user cohorts, supporting lifecycle strategies.
- Translated data analytical insights into weekly and sprint new activity release for optimizing onboarding flow, enhanced in-game sustainability engagement, user segmentation, and Discord-to-app conversion rates.
- Built interactive **Tableau** and **Jupyter dashboards** to visualize user adoption metrics with development decisions.

Mega IT

Jun 2024 – Jan 2025

Data Engineer | San Jose, CA

- Performed exploration data analysis using **Python (Pandas, SageMath)** to identify product usage inefficiencies with 94% accuracy and optimize feature rollout timing, decreased developing-wide operational costs by 12%.
- Conducted **ETL Process**, extracted and modeled telemetry data from 5 disparate vendor sources.
- Through **Aris**, monitored feature-level tracking metrics for platform usage; authored actionable roadmap insights.

Mobalytics

May 2023 - Sep 2023

Data Scientist Intern | Santa Clara, CA

- Built a client attrition random forest model using Jupyter Lab, improved quarterly retention by 12 bias points.
- Led a geospatial analysis and created forecasting models by **Scikit-learn and SciPy** to predict market trends and optimize monetization strategy; present the model by **MS Power BI**. Eliminated erroneous deliveries by 12%
- Used Python and Excel to segment users and evaluate A/B test results on feature launches and platform changes.

PROJECT

Microservice Data Base API Development

Dec 2022 – May 2024

- Authored Database Microservice API BRD for streamlining data retrieval and reducing third-party dependency.
- Designed and deployed user interaction flows and retrieval pipelines using **ARIS Express and MongoDB**.

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