

HONGCHAO HU

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OBJECTIVE

- With a strong academic background in Data Science and Computer Science eager to kickstart my career as a data scientist intern. Proficient in Numpy, Scikit-learn, MySQL, and Power BI/ Tableau. Hope to learn from industry experts, tackle complex business challenges, and contribute to new data-driven initiatives.

SKILLS

- **Programming:** Python (Pandas, SageMath, Seaborn, Scikit-learn), Java, Azure AutoML
- **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, DBMS

EDUCATION

Worcester Polytechnic Institute

Aug 2025 - May 2027

- *Master of Science in Data Science* | **GPA: 3.9**

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

Tanbii

Oct 2025 – Present

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.

American Express

May 2021 - Aug 2022

Data Analyst | 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.
- Oversaw feature rollouts via BPMN diagram; implemented continuous API integration (CI) via **Azure Build Pipeline**.
- Crafted an **Agile SDLC** roadmap for cross-border financial services, ensuring compliance with international licensing.

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.

Professional Certifications

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