

Yanjia (Jah) Chen

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EDUCATION

University of Washington, Information School

Seattle, WA

Bachelor of Science in Informatics, Concentration: Data Science

June 2026

Cumulative GPA: 3.91/4.0

Relevant Coursework: Machine Learning • Search & Recommender • Enterprise Risk Management • Databases & Data Modeling • Artificial Intelligence • Data Structures & Algorithms • Matrix Algebra • Probability

EXPERIENCE

Data Analytics Engineer (Industry-Sponsored Capstone)

Jan. 2026 – Present

Chinese Information and Service Center

Seattle, WA

- Alleviated collaborator concerns and built trust by resolving 6+ user pain points through wireframes, user-flow diagrams, and a lo-fi prototype.
- Consolidated 4 MVP features and 2 automation workflows by analyzing insights from 5+ stakeholder interviews.
- Coordinated technical compliance discussions with the sponsor's IT committee by proposing sustainable solutions projected to keep annual budget under \$500.

Data Scientist (DubsTech 7th Datathon)

Feb. 2026

University of Washington

Seattle, WA

- Addressed 4 accessibility-focused data science prompts within a 24-hour competition window by building data visualizations and clustering high-risk web pages in Jupyter.
- Translated findings into digestible, non-technical materials by commenting on code, building a PowerPoint presentation, and recording a 3-minute voiceover.
- Scored 24/25 from competition judges by presenting 17 engineered features, a severity-weighted risk formula, and actionable prioritization frameworks.

Undergraduate ML Engineer

Sept. 2025 – Dec. 2025

University of Washington

Seattle, WA

- Achieved 46% precision and 67% nDCG@10 by transforming 137k+ unique Amazon gaming products into model-ready TF-IDF text embeddings.
- Engineered a content-based kNN recommender by integrating techniques from 3 industry-standard recommendation algorithms.
- Mitigated the cold-start problem by building a Flask frontend with a pre-usage rating interface and post-usage surveys to collect user feedback.

Undergraduate Security Analyst

Sept. 2025 – Dec. 2025

University of Washington

Seattle, WA

- Patched 5 major vulnerabilities in a containerized password manager application using vulnerability management software and offensive security tools.
- Fostered a transparent, proactive security culture by cross-validating remediations with 2 undergraduate security teams and publishing instructions for setting up a containerized environment.

TECHNICAL SKILLS

Programming Languages: Python, R, SQL, Java, C++, PHP, JavaScript, HTML/CSS

Data & ML: pandas, NumPy, scikit-learn, PyTorch, seaborn, Matplotlib, PyTerrier

Databases: SQL Server (Azure SQL), MongoDB, Firebase Realtime Database, AsterixDB, Supabase

Security & DevOps: Docker, Metasploit, Wireshark, OWASP ZAP, Loggly, Selenium IDE

Platforms & Tools: GitHub, Flask, Tableau, Jupyter, Google Colab, VS Code, RStudio, Antigravity, Vercel

CERTIFICATIONS

CompTIA Security+ (SY0-701)

Dec. 2025