

Jeremy Wang

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WORK EXPERIENCE

Sompo Japan Insurance Inc.

Atlanta, Georgia

Software Developer Intern

June 2025 – August 2025

- Collaborated with Sompo Pricing & Inland Marine teams to develop & Python Pricing models for improved valuations
- Achieved software/data simplification, cutting runtime by 50% & saving the Underwriting Team ~\$20K of labor a yr.
- Created a library that pulls from a key SQL server reducing development implementation saving 5 manhours of coding

KEY PROJECTS

Azure Data Pipeline Project for Underwriting Valuations

- Spearheaded a project working with a Data Scientist to build an Azure data pipeline using iterative 3 Azure functions
- Mitigated potential API security flaw using Azure Key Vault for outbound API calls & protecting 100+ clients' info.
- Remodelled cross-language integration issues in Azure from C++ list to Python list leading to 20% simpler data parsing
- Devised a new analysis method to synthesize PowerBI currency conversions for Singaporean team saving 25% of time

Python Bailees Inland Marine Insurance Coverage Pricing Model

- Partnered with 3 Actuarial teams to identify 20 quantifiable metrics for further Pricing Python Numpy data analysis
- Implemented an async Excel ingestion module with schema validation & automated I/O syncing in the model backend
- Integrated the Python model with other enterprise models to enable seamless data transfer and support add'l coverages

Underwriting Pricing UI/UX Refinement

- Programmed a Python library using SQLite to pull 140 pairs of currency swaps to streamline underwriting pricing
- Refined JavaScript UI/UX to meet client expectations and allow for 140 currency data pulls using SQL queries
- Coordinated with Sr. Developer to integrate Python Pandas into the Currency library for 3 underwriting pricing models

Montra Technologies

Atlanta, Georgia

IT Logistics Intern

August 2024 – Present

- Oversaw software update process for 200+ client computers & improved system compliance by 40% over 1 quarter
- Diagnosed enterprise computers remotely with remote access software to update or repair 5+ yrs. outdated software
- Assessed critical issues related to enterpr. computer by reimaging or replacing physical hardware or updating software

Midas Project LLC.

Atlanta, Georgia

Software Developer Intern

June 2024 – Present

- Designed a financial data pipeline using Pandas + TWS API, collecting, cleaning, & presenting historical market data
- Implemented profit-and-loss calculation modules using NumPy, enabling rapid evaluation of trading strategy in 7 sec.
- Contributed to a ~20k-line Python trading platform & lead ~40% of rewrite tasks leading to ~20% less processing errors

PERSONAL & CAMPUS PROJECTS

VIP Project: Automotive Lidar

VIP is an instructor-led course on continuous development on a GitLab repo to achieve critical College of Computing goals

- Designed a Docker container to run 3 Bash scripts that automated Linux environment for onboarding new students
- Updated old ROS 1 launch files to Ros 2 launch files allowing for 100% of the testing team to run testing environments
- Tested the environment on Windows using WSL 2 on ROS Jazzy on both Windows and Mac to ensure compatibility
- Configured Desktop VNC to interface with a Linux GUI running in WSL, enabling graphical testing & simulation

CS4641 Machine Learning Final Project

- Designed a FSRCNN model using Pytorch to upscale HD to UHD with an MSE of .09% compared original UHD
- Constructed a Python + OpenCV data pipeline that converted 500+ high-resolution videos into NumPy arrays
- Modified FSRCNN model to allow for temporal context

SPOTIFY APP

- Integrated Spotify API to pull user data & dynamically display users' top 5 songs, personalizing the music experience
- Managed 400+ user profiles in Firebase, designing cloud database structures to store & update user data & preferences
- Integrated Firebase Authentication using Java & Javascript in the Android Studio App to verify users & ensure privacy

EDUCATION & SKILLS

Georgia Institute of Technology

Atlanta, Georgia

B.S. in Computer Science | *Concentration in Intelligence & People* | Major GPA: 3.43/4.0

Spring 2027

Relevant Courses: Objects and Design, Data Structures & Algorithms, Intro to AI, Computer Architecture, Machine Learning, Cognitive Science, Probability & Statistics, Human Language Processing

Cloud & Databases: Azure, AWS (Percipio: Certified Solutions Architect), Firebase, SQL Server Manager, Pyodbc

Coding Languages: Python, SQL, Javascript, Java, C++, C

Tools & Frameworks: Git & GitHub, Docker, Android Studio, Unreal engine, Rest API, Power BI, Linux, WSL 2

Interests: Crocheting, Taekwondo, Minecraft (modding), Computer Graphics (Graphic Cards), Disassembling Laptops