Oscar Zhang

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Education

Georgia Institute of Technology   December 2025
Bachelor of Science in Computer Science, 3.8 GPA   *Atlanta, GA*

Work Experience

DRW Holdings   June 2025 – August 2025
UI Software Engineer Intern   *Chicago, IL*
- Created web app in TypeScript & React to ergonomically visualize volatility skews along with fitter inputs
- Built a feature to view multiple skews graphically & in grid form using AG Grid & an internal charting library
- Wrote service in Python to normalize/process data into an ingestible form using FastAPI, NumPy, & Polars

PayPal   May 2024 – August 2024
Software Engineer Intern   *San Jose, CA*
- Developed tool used by **5+** teams with Spring Boot & React to onboard merchants with a new payment feature
- Worked as **tech lead for 2 interns** in a mock store project to test payment APIs using Next.js & Spring Boot
- Created 50+ unit & functional tests using Cypress & TestNG for an API route with millions of calls daily

Fyve By   August 2023 – April 2024
Software Engineer Intern   *Atlanta, GA*
- Built high-performance frontend with Unity & C# for a real-time digital clone of client hangars, handling millions of points updating every cycle with $\leq$ **10ms latency and 2cm error**
- Created a client-requested automated plane scheduler integrated with LiDAR system using React & TypeScript

Lab Experience

Molecular Evolution Core Lab   August 2024 – May 2025
Student Software Developer   *Atlanta, GA*
- Built app to manage pipette cleaning life-cycle, creating features such as order tracking & automated bundling

Social Dynamics and Well-Being Lab   January 2024 – December 2024
Student Software Developer   *Atlanta, GA*
- Created quiz application with analytics for a study with **150+** participants using React & MongoDB
- Used topic modeling in Python & a time series analysis to model loneliness trends using 11 years of Reddit data

Projects

Phisherman ↗ | Hackalytics 2025 (Cybersecurity Track Winner) | *React, TypeScript, Flask, MongoDB, Python*
- Developed app to simulate customized cyber attacks such as fraudulent emails & voice emulation using voice AI

MarketSafe ↗ | HackED 2024 (AltaML Challenge Winner) | *React, Flask, SQLite, BigQuery*
- Produced app to detect misinformation & harmful content in Amazon reviews using the OpenAI API

Leadership / Community Engagement

Georgia Institute of Technology | Teaching Assistant (TA)   February 2024 – May 2025
- Provided tutoring for "Graduate Computing for Data Analysis" covering NumPy, Pandas, & databases

Bits of Good | Bootcamp Instructor   August 2024 – May 2025
- Taught a bootcamp to **20+** students on full-stack development, covering topics like APIs, React, & Node

Technical Skills

Languages: TypeScript, JavaScript, Python, C++, Java, C#, HTML, CSS, SQL
Frameworks/Libraries: React, Node, FastAPI, Express, Next, Spring, Flask, NumPy, Pandas, Polars, Vitest
Developer Tools: Amazon Web Services (AWS), PostgreSQL, MongoDB, SQLite, MySQL