ANGELA (ZI LAN) ZHANG

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EDUCATION

Columbia University, New York, NY   **Exp. May 2026**
Bachelor's in Computer Science   GPA 4.15/4.00
- Teaching Assistant for Advanced Software Engineering, Intro to Python, Data Visualization
- Div. 1 Golf Student Athlete: 3x WGCA All-American Scholar; former top 3 junior player in Canada
- Relevant courses: Advanced Programming (C, Unix), Algorithms, ML, Observability, Computer Networks

PROFESSIONAL EXPERIENCE

Palantir   **London, UK**
Forward Deployed Engineer   Junior Summer Internship
- Designed and deployed a supply chain risk mitigation app in Palantir Foundry for a Fortune 500 energy company, to address global material shortages and forecast supply chain disruptions
  - Led client-facing efforts directly on client's site, translating business needs into technical solutions
  - Project managed and aligned key stakeholders across supply chain, risk management and data teams
  - Coded and delivered user-tested, client-approved MVP in 14 days
- Pioneered foundational work to optimize scheduled compute processes in Palantir's data pipelines
  - Identified $3.1M in potential annual savings from compute wastage
  - Developed a framework to identify non-deterministic and redundant computes in complex pipelines

Amazon (AWS)   **Seattle, WA**
Backend SDE, AWS Lambda   Sophomore Summer Internship
- Built an asynchronous artifact merging service on Lambda API to resolve Java-SDK timeouts for large files
- Reduced API response time 10x by creating a database to track function state during asynchronous merges
- Created a comprehensive test suite (unit, functional, integration, performance) to validate service correctness

CO-CURRICULAR PROJECTS

Recording Blossoms on P2P Network Blockchain (Computer Networks Class Project)   Nov. 2023
- Developed a decentralized system to record cherry blossom statuses across Columbia's campus via user input
- Designed Python and React apps to sync peer nodes, supporting multi-device real-time updates
- Implemented a tracker for node discovery, validation and network synchronization

Assessing Product Quality Using Sentiment Analysis (ML Class Project)   Sep. 2023
- Developed a ML model using sentiment analysis to assess online grocery product quality (F1=0.87)
- Cleaned and processed product review data using TFIDF, normalization and SMOTE oversampling
- Trained multiple classifiers (logistic regression, naïve Bayes, decision tree, SVC, k-neighbors, Adaboost)

Accelerating Pine Beetle Infestation Prediction Tool (University Incubator Project)   Sep. - Nov. 2022
- Built a web tool funded and backed by the US Forest Service to visualize and predict beetle outbreaks
- Reduced prediction time from 8 mins to under 20 secs via backend pipeline optimization and data precomputation
- Deployed with GitHub Actions and Heroku, optimizing continuous integration and delivery workflows

OTHER

Programming Languages: JavaScript (Node.js, React), Java, Python, TypeScript, Ruby on Rails, SQL/NoSQL
Tools: Git, Docker, Kubernetes, AWS (EC2, S3, Lambda, RDS), GCP, Heroku, Maven
Languages: English (native), Mandarin (working proficiency), French (working proficiency)