

Arnold Jiang

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Education

Princeton University

May 2026

Bachelor of Science and Engineering in Computer Science, Minor in Biology

Princeton, NJ

- Relevant Coursework: Data Structures & Algorithms, Programming Systems, Discrete Math, Computer Science Theory, Economics & Computing, Probability & Statistics
- Awards: Global Seal of Biliteracy in Mandarin Chinese, National Merit Finalist, Questbridge National College Match Finalist
- GPA: 3.788/4.0

Experience

Amazon

May – August 2024

Software Engineer Intern

New York, NY

- Implemented a JS front-end library to track advertiser behavioral analytics on the Amazon advertising console
- Collected and gathered this data using MySQL to offload tables into DynamoDB and Redshift to enhance advertiser targeting for marketing strategies.
- Delivered data analytics onto an internal front-end dashboard by running offline EMR jobs and transferring data into an S3 bucket to aid in understanding user behavior for creating advertising campaigns.

Amazon

May – August 2023

Software Engineer Intern

New York, NY

- Developed an internal troubleshooting tool, integrating ReactJS, TypeScript, and CSS for front-end development that would make backend REST API calls to the Brand Advertising Measurements team's API service.
- The tool identified root causes for advertisers lacking brand access, enhancing issue resolution efficiency by 50% by automatically generating relevant MySQL queries and step-by-step instructions.

Bank of America

June 2022 – August 2022

Generalist Intern

Columbia, SC

- Collaborated with local non-profits including the Boys and Girls Club of America to develop and implement business strategies that supported their mission and goals of providing youth summer engagement programs.
- Acquired in-depth knowledge of the financial aspects and responsibilities associated with running a business by actively engaging in financial analysis and budgeting.

Projects

Wordnet | Java

November 2023

- Created a WordNet: a database that maps semantic relationships between English words by using a rooted directed acyclic graph to simulate synset-hypernym relationships.
- Implemented a modified version of breadth-first search using hashmaps to measure the semantic relatedness of two given words by finding the shortest common ancestor.

Directory File Tree | C

March 2023

- Worked with different tree data structures (Binary Directory Tree (BDT), Directory Tree (DT), and File Tree (FT)) to create three implementations of a file manager.
- Addressed bugs, created internal validation modules, and reprogrammed the BDT, DT, FT implementations.
- Parsed through substantial amounts of pre-existing code to get up to speed on the codebase efficiently.

Anagrams GUI | Java

December 2022

- Engineered a GUI that mimicked the Game Pigeon game Anagrams using the Java Swing library's JButton, JPanel, JFrame, and JLabel classes

Technical Skills

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

Frameworks: React, Node.js

Developer Tools: Git, AWS, Docker, Google Cloud Platform, VS Code, IntelliJ