

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
- GPA: 3.77/4.0

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.

Extracurriculars

HackPrinceton

January 2023 – Present

Partnerships Team Lead/Advisor

Princeton, NJ

- Led the partnerships team, securing over \$50,000 in fundraising by collaborating with top-tier companies including Google, Amazon, D.E. Shaw, Infosys, and engaging alumni participation.
- Organized hackathon workshops, effectively coordinated event schedules, and established partnerships with businesses to facilitate mentorship programs with hackers, enhancing the overall hacker experience and learning outcomes for our hackathons.

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