Arnold Jiang

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EDUCATION

Princeton University   **June 2026**
Bachelor of Science and Engineering in Computer Science, GPA: 3.77/4.0   Princeton, NJ
- Coursework: Data Structures & Algorithms, Machine Learning, Programming Systems, Computational Theory

EXPERIENCE

Amazon   **May 2024 - August 2024**
Software Development Engineering Intern   New York, NY
- Achieved detailed tracking of advertiser behavioral analytics on the Amazon advertising console by integrating a JavaScript front-end library, as measured by improved accuracy of advertiser behavior data, enhancing 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 2023 - August 2023**
Software Development Engineering 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 - August 2024**
Partnerships Team Lead   Princeton, NJ
- Led the partnerships team, securing over $50,000 in fundraising by collaborating with top-tier companies including Google, D.E. Shaw, and 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

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.
- Parsed through substantial amounts of pre-existing code to get up to speed on the codebase efficiently.
- Addressed bugs, created internal validation modules, and reprogrammed the BDT, DT, FT implementations.

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.

Anagrams (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

Programming Languages: Java, C, Python, Typescript, Javascript, R, SQL, HTML/CSS
Frameworks: React.js, Node.js, Bootstrap, Next.js
Developer Tools: Git, Docker, AWS