

Alan Hagedorn

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EXPERIENCE

Palantir Technologies

Software Engineer Intern

Sept – Dec 2023

New York City, NY

- Worked on a **container vulnerability scanner** on the Backend Infrastructure team to detect dependency vulnerabilities and malware in **Docker** images, using **Java**, **Cassandra**, **Typescript**, and **React**
- Developed a **full-stack auditing tool** for the information security team to be able to view exactly when internal software vulnerabilities were suppressed, and when the intervals suppressions were active
- Developed more robust Java records by creating a **Gradle** plugin to generate the builder pattern for Java records.

Robinhood Markets

Software Engineer Intern

May – Aug 2023

Menlo Park, CA

- Created a **fraud visibility** tool, tracing the origin, processing, and resulting actions in response to fraudulent user actions on the Robinhood trading platform
- Used **Typescript**, **React**, and **Python** to create a flowchart visualization to identify key system decisions
- Designed **accessible** features for non-technical users, including a **SQL** query builder to find fraudulent actions
- Enhanced audit logging in Robinhood's fraud detection engine by adding more context to existing audit events
- Integrated feedback and features from key stakeholders, including data scientists, the fraud operations team, and anti-fraud software engineers

Dropbox

Software Engineer Intern

May – Aug 2022

Remote

- Developed an **internal search** tool, enabling efficient location of over **2500** Dropbox-hosted webpages
- Automated indexing and updates for a **40% reduction** in search time
- Increased search **accuracy by 25%** through robust page parsing functionalities for content and metadata
- Deployed the tool in production, resulting in an increase in content visibility, saving engineers ~8 hours a week
- Used **TypeScript**, **React**, and **Python** to implement a frontend, backend, and an asynchronous page indexer

Modern Treasury

Software Engineer Intern

Jan – Apr 2022

Remote

- Developed **full-stack** web solutions using **Ruby**, **React**, **GraphQL**, and **TypeScript** for financial transactions
- Standardized UI across **15%** of customer-facing pages and migrated from **REST** to **GraphQL**, improving API efficiency by **20%** and reducing data transfer overhead
- Developed a new payment approvals process, enabling administrators greater control over transactions
- Worked with a team of engineers to automate monthly billing, saving approximately **20 hours** per month
- Provided **on-call** support, handled tickets, implemented bug fixes, and fulfilled feature requests

PROJECTS

Leetcord [GitHub] | *Python, Django, PostgreSQL*

Apr – Jun 2022

- A web application that integrates Discord and LeetCode, allowing users to share, compare, and store solutions in a collaborative and interactive platform

SkateShare [GitHub] | *Kotlin, Dagger Hilt, Firebase, SQLite, Maps APK, LeakCanary*

Jul – Sept 2021

- An Android application for users to record and share electric skateboarding routes. Utilized geospatial queries with Firestore for saving and sharing routes to a global map

EDUCATION

University of Minnesota

B.S. in Computer Science, 3.95 GPA

Minneapolis, MN

May 2024