

# Anish Agnihotri

www.anishagnihotri.com

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**GitHub:** github.com/anish-agnihotri

## SKILLS

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**Languages:** JavaScript, Python, Solidity, C, SQL, HTML, CSS, C++ (intermediate)

**Platforms/Libraries:** TypeScript, NodeJS (+ Express, Nest), React (+ Next, Preact), React Native, Flask, Asyncio, Selenium, Web3/Ethers, Docker, Git, GCP, NoSQL (Mongo, Couch, Realm), SQL (Postgres, BigQuery), Redis

## EXPERIENCE

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**Paradigm**, *Research Associate* | San Francisco, CA *Jul. 2021 - Present*

**Polychain Capital**, *Research Intern* | San Francisco, CA *Jun. 2020 - Jun. 2021*

- Built internal tooling (Web3/Ethers) to securely interface with and execute transactions across on-chain protocols.
- Conducted EDA (Python) and built ETL Pipelines (Composer, ethereum-etl) to identify on-chain network trends.
- Developed a validator statistics endpoint (stats.polychainlabs.com) in TypeScript, optimizing for sub-50ms response.
- Led technical research into Layer-2 scaling solutions and arbitrage, file storage protocols, and generalized DeFi.

**1Password**, *Software Engineering Intern* | Toronto, ON *Jul. 2019 - Aug. 2019*

- Expanded build verification testing pipeline for 1Password.com using NodeJS, TypeScript, and Selenium WebDriver.
- Individually increased platform test coverage by 40%; implemented multi-browser testing functionality (geckodriver).
- Helped implement parallel test execution via NodeJS workers to decrease test runtime by 30m (400% improvement).
- Worked with a largely remote team to debug tests and swiftly devise front-end patches to reduce pipeline downtime.

## PROJECTS

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**PartyBid**: *Solidity (ABDKMath, Zora, IERC721), JavaScript (Waffle)* anish-agnihotri/partybid

- Developed an NFT collector DAO contract to pool Ether and bid on Mirror's Reserve Auctions (using zNFTs).
- Built functionality for governance proposals and secondary market sales (via Zora IMarket bid proposals).

**OnlyTweets**: *JavaScript (NextJS), PostgreSQL, Puppeteer* www.onlytweets.co

- Developed a subscriptions platform to enable users to subscribe to creators' paywalled Twitter accounts.
- Built Stripe checkout flow and Twitter session hijacking functions via Puppeteer to auto-approve pending requests.

**Weve**: *JavaScript (React), GraphQL, Arweave* www.weve.email

- Developed a decentralized mail network with RSA-OAEP encryption on the Arweave blockchain in JavaScript.
- Queried for emails and network events in real-time with GraphQL; Winning hack at the New York Blockchain Week.

**Memory**: *Swift, JavaScript (React Native + RN Navigation), RealmDB* www.memory.surf

- Developed a habit-based mood tracker and memory diary iOS app to keep track of your best moments.

## AWARDS

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**Apple WWDC18 Scholar**: Youngest Canadian student (of 13/350 worldwide) awarded merit scholarship.

**Google Code-in '20 Finalist**: Named finalist (of 50/3,566 worldwide) for contributions to open-source development.

**Various hackathon accolades**: 100% win rate across 10 hackathons: New York Blockchain Week 2020 (Winner, Best Mid-Week Hack), Hack the North 2019 @UWaterloo (Finalist, Best Blockchain Hack), ETHBoston @Harvard (3x Best Squarelink Hack), ETHUofT @UofT (2nd Place Overall, Best Totle Hack, Best Aion Hack), BlockHackTO (Finalist, Best UCash Hack), Hack the North 2018 @UWaterloo (Best Blockchain Hack), PennApps XVIII @UPenn (Top 10 Hack, Top 30 Hack, Best Blockchain Hack), PennApps XVII @UPenn (Best Financial Hack), THacks2 @UofT (Best Financial Hack), and Legal Tech Hack (Finalist).

## EDUCATION

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**University of Waterloo** *Sep. 2020 - Present*

*Honours, Bachelor of Computer Science, President's Scholarship of Distinction*