Anish Agnihotri

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EDUCATION

University of Waterloo   *Sep. 2020 - Present*
Honours, Bachelor of Computer Science, President's Scholarship of Distinction   **GPA: 4.0**

EXPERIENCE

Polychain Capital, *Research Intern* | San Francisco, CA   *Jun. 2020 - Present*
- Conducted EDA (Python) using time-series data on crypto volume movements to identify incidental network trends.
- Developed a validator statistics endpoint (stats.polychainlabs.com) in TypeScript, optimizing for sub-50ms response.
- Worked with the Research & Investments team to perform due diligence on prospective investments & opportunities.
- Led technical research into valuing Decentralized Finance, Layer-2 scaling solutions, and File Storage Protocols.

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 cluster 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

Presubscribe: *TypeScript (React, Express), NodeJS, PostgreSQL, Redis*   www.presubscribe.me
- Developed a scaleable social platform with Twitter OAuth, dynamic profile generation, and cached leaderboard.
- Built serverless functions to handle on-demand meta generation for individual profile pages with headless Chrome.

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*   App Store Link
- Developed a habit-based mood tracker and memory diary iOS app to keep track of your best moments.
- Built RealmDB migration mechanism to ensure data safety when deploying updates to several thousand user devices.

AWARDS

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).

SKILLS

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

Platforms and Technologies: MacOS, Linux, TypeScript, NodeJS (+ Express, Koa), React (+ Next, Gatsby, Preact), React Native, Vue, Git, Docker, Selenium, Azure/GCP, NoSQL (Mongo, Couch, Realm), PostgreSQL