

TECHNICAL SKILLS

Languages: JavaScript, Python, SQL, C++, HTML, CSS

Technologies: TypeScript, NodeJS, React, Next, Web3/Ethers, Docker, Git, SQL, AWS, Redis

EXPERIENCE

Reservoir

Oct. 2022 – Present

Engineering Intern

New York, NY

- Developed a Discord NFT bot providing easy to use collection stats and alerts to communities.
- Built a developer dashboard to provide customers a platform to manage API keys.
- Provided support to developers spanning the entire Reservoir toolkit.

Healthcare Systems R&A

Sep. 2021 – Dec. 2021

Engineering Research Assistant

Waterloo, ON

- Assisted in building an automated and universal Smartphone Rapid Diagnostic Test reader.
- Enhanced Python calibration code to improve prediction accuracy of various concentrations.
- Implemented various image manipulation functions to refine the quality of test images.

Taymer International

Feb. 2021 – May 2021

Mechanical Design Engineer

Markham, ON

- Worked across complete product life-cycle: design, fabrication, assembly, and quality assurance.
- Individually designed new LR400 Accurate Wire Length Counter product suite in OnShape.
- Optimized LR600 cutter module (via interchangeable funnels) to increase compatible wire sizes.
- Designed a camera box module for the HF3000 hot foil marking machine to enable print observation.

QBuild Software

Jan. 2021 – Feb. 2021

Application Developer

Markham, ON

- Built a HIPAA-compliant health dashboard using a headless WordPress CMS in JavaScript.
- Designed and developed a custom WordPress plugin in PHP to search and filter the PubMed API.
- Built misc. internal dashboards to monitor processes via JavaScript (React), HTML, and CSS.

PROJECTS

Reservoir Dashboard | *NextJS, PostgreSQL, Redis*

dashboard.reservoir.tools

- Developed a web application allowing users to collaborate with their teams and manage API keys.
- Implemented user authentication through Auth0 and provided paid subscriptions using Stripe.

Reservoir Discord NFT Bot | *TypeScript, Redis, Docker*

reservoirprotocol/reservoir-discord-bot

- Developed a Discord bot providing real time data for NFT collections through a search command.
- Implemented alerts for new floor tokens, top collection bids, listings, and sales.

Habipets | *React, Solidity, Altura API*

habipets.vercel.app

- Developed a web application allowing users to log daily habits with the incentive of a smart NFT.
- Provided feeless dynamic NFTs linked to habit streaks and achievements through off-chain updates.

Snip3r | *NextJS, PostgreSQL*

jadendurnford/snip3r

- Developed a web application allowing users to input price, rarity, and trait values for NFT collections to snipe listed NFTs matching their query.

Twitter Follow Tracker | *TypeScript, PostgreSQL*

jadendurnford/twitter-tracker-bot

- Developed a TypeScript program which stores account following data from the Twitter API using SQL.
- Updates the user with new follow alerts via a Discord Bot.

NFT Rarity Tool | *JavaScript*

jadendurnford/nft-rarity-calc

- Developed a JavaScript program which pulls NFT trait data to sort collections by rarity score.

WeightWeave Gitcoin Bounty | *React*

jadendurnford/weightweave

- Developed a web application allowing users to track their weight and save their data to the permaweb.

EDUCATION

University of Waterloo

Waterloo, ON

BASc. Mechanical Engineering, President's Scholarship of Distinction

Sep. 2020 – Present