Jaden Durnford

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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
Software Engineer   *New York, NY*
- Developed a Discord NFT bot offering on demand collection stats and real time alerts to communities.
- Built Reservoir's developer dashboard providing customers a platform to manage subscriptions and API keys.
- Provided customer support to developers implementing Reservoir products spanning the entire toolkit.

Healthcare Systems R&A   Sep. 2021 – Dec. 2021
Engineering Research Intern   *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 Intern   *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 Intern   *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 live data for NFT collections through various search commands.
- Implemented real time 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*