

# Crystal Parker

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## EDUCATION

### Dalhousie University — GPA: 3.62/4.30

Halifax, NS

*Bachelor of Computer Science, Minor in Biology — Sexton Scholar, Dean's List*

*Jan 2021 – Jan 2024*

## EXPERIENCE

### NearArcade Collaboration

Apr 2022 – Jan 2023

*NearArcade*

*Remote*

- Collaborated on HTML5 game with Curtis Robinson Senior Developer and LoMaking NFT Artist
- Contributed approximately 30% of JavaScript code and wrote the contract in Rust with tests to integrate with NEAR protocol
- Best week 3575 plays, top 20 players over 100 plays each and top player played 458 times
- Website: [neararcade.com/mrbrown/](https://neararcade.com/mrbrown/)

### Website Developer

Sep 2019 – Present

*Freelance*

*Halifax, NS*

- Developed websites using Python frameworks Flask, Django, and CMS Mezzanine for 4 clients
- Provided technical support and tutoring to 2 senior clients
- Websites: [donmewsphotography.ca](https://donmewsphotography.ca), [cos-dev.org](https://cos-dev.org), [captainsinnalma.ca](https://captainsinnalma.ca)

### Art Course Blog WordPress

Apr 2016 – Jan 2019

*Freelance*

*Halifax, NS*

- Demonstrated marketing ability with 11 courses sold, 360 subscribers, 34% open rate, and 5.8% click rate

## PROJECTS

### StockVision | React, NodeJS, ExpressJS, NEXT.js, Material-UI, MongoDB, Git

Jan 2023 – Apr 2023

- Developed user authentication for full-stack MERN stock tracking application
- Provided conflict resolution to ensure on-time delivery of deliverables
- Project Demo: [youtu.be/rP99sH69eB0](https://youtu.be/rP99sH69eB0) Repo: [tinyurl.com/z5m9m7uv](https://tinyurl.com/z5m9m7uv)

### Formula Factory | React, NodeJS, ExpressJS, Material-UI, DynamoDB, AWS, Docker, Git

Jan 2023 – Apr 2023

- Created a full stack MERN application for editing math-based cheat sheets
- Project Demo: [youtu.be/NnyJIa2vvnk](https://youtu.be/NnyJIa2vvnk) Repo: [tinyurl.com/5n88jptv](https://tinyurl.com/5n88jptv)

### NEARvember hackathon | AssemblyScript, Rust, React, JavaScript, Git

Nov 2021

- Participated in 12-part hackathon hosted by NEAR protocol and completed 12 challenges over 2 weeks
- In the top 20 participants.

### HTML5 canvas Javascript Game for js13KGAMES | JavaScript, HTML5, Git

Aug 2021 – Sept 2021

- Adapted entry to decentralized category using NEAR and Protocol Labs Drand
- Adapted open source AudioContext web API miniPiano app as a new music-making tool and tiny inline drop-in for impressive in-game music. Music Tool Repo: [github.com/Vertfromage/miniPiano](https://github.com/Vertfromage/miniPiano)
- Game: [tinyurl.com/mrwunc8v](https://tinyurl.com/mrwunc8v)

### Math Dungeons | JavaScript, Phaser3

2020

- Game: [mathdungeons.com](https://mathdungeons.com)

### Shiftkey Labs' Covid-19 Virtual Hackathon | Python, Django

2020

- Developed a Django web app in collaboration with team of four
- Demo: [youtu.be/IAqi-IBnvIA](https://youtu.be/IAqi-IBnvIA)

## TECHNICAL SKILLS

**Languages:** JavaScript, Java, Python, C, SQL, HTML/CSS, PHP

**Databases:** MySQL, DynamoDB, MongoDB

**Frameworks:** React, Node.js, Flask, Django, Bootstrap, Material-UI, Phaser3

**Developer Tools:** Git, Docker, VS Code, IntelliJ, AWS

**Natural Languages:** English (Native Speaker), French (Intermediate)

**Certificates:** MITx 6.00.2x, MITx 6.00.1x, Harvard CS50x — [profile.edx.org/u/vertfromage](https://profile.edx.org/u/vertfromage)