

# Thomas J Foydel

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## Professional Experience

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**Instructor** 12/2022 – present | remote

*NiIT/Stack Route*

Teaching frontend web development at the National Institute for Information Technology. Guiding students to build robust, performant, secure user interfaces with a variety of modern web technologies.

**Full Stack Software Engineer** 02/2022 – 11/2022 | remote

*Rainmaker Games*

Built a highly scalable global platform using a wide range of technologies including React, Node, Nest, Contentful, Firebase, CockroachDB, Prisma, Next, and Vercel. Conducted technical interviews with hire candidates. Worked with designers, business developers, and corporate management to ship product and iterate rapidly. Created authentication, review, and data caching systems. Provided code review for coworkers and refactored existing code. Migrated infrastructure from Firebase and Next to CockroachDB and Nest.

<http://rmg.io> ↗

**Software Engineer** 07/2021 – 02/2022 | remote

*WiseSoft LLC*

Built blockchain user interfaces for decentralized finance products with JavaScript, HTML5, CSS3, React, Web3 and Ethers.JS. Handled deployment via AWS. Conducted technical interviews with potential hires. Implemented agile workflows and collaboration with Notion and Git.

<https://wisetoken.net/> ↗

<https://liquidnfts.com/> ↗

**Tutor, Grader, and Senior Learning Assistant** 05/2020 – 11/2021

*2U*

Chicago, United States

Provided one-on-one coaching to students of the full stack web development program. Built on students' conceptual foundations in a range of web technologies. Delivered individualized feedback to students to maintain motivated learning. Guided students in generating strategies to overcome technical errors and other obstacles. Coordinated with team members to manage questions and deliver comprehensive responses to students.

**Teaching Assistant** 01/2020 – 07/2021

*Northwestern University Coding Bootcamp*

Chicago, United States

Assisted instructors and students of Northwestern University's full stack web development bootcamp to promote student success.

**Behavior Technician** 04/2017 – 04/2020

*Caravel Autism Health*

Deerfield, United States

Provided data-driven therapeutic services for children and teens diagnosed with autism to increase acquisition of social communication skills and improve quality of life. Implemented behavioral interventions, collected and graphed behavioral data, and coordinated with families and other staff.

## Projects

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### Commissioner [↗](#)

<https://github.com/ThomasFoydel/commissioner>

A written content commissioning platform built on Web3 technologies. Users can commission written content of any kind, submit entries to commissions, vote for other authors' entries, contribute reward funds to commissions they value, and win votes and rewards. Built with Solidity, TypeScript, React, Node, Next, Vercel, AssemblyScript, Truffle, Mocha, EthersJS, and TailwindCSS.

Live app at <https://commissioner.vercel.app/> [↗](#)

### RoShamBo [↗](#)

<https://github.com/thomasFoydel/roshambo>

A webcam version of rock paper scissors. Built in MERN stack with tensor-flow, WebRTC, socketIO, and Material UI. Users are connected via encrypted peer-to-peer UDP connections. Machine learning is used to determine a user's hand gesture based on snapshots from their webcam stream, allowing them to select from a range of weapons each round. Authentication is JWT based and the front-end state management relies on React's context API.

Live app at <https://roshambo.xyz/> [↗](#)

### Fitra [↗](#)

<https://github.com/thomasFoydel/fitra>

A real-time video chat and appointment management application geared towards personal trainers built in MERN stack with PeerJS/WebRTC, Socket.io, React-Spring, Bcrypt, and JWT. Users can sign up as clients or trainers, edit their profiles, and store profile and cover images in MongoDB's GridFS system. Clients can use Paypal to purchase sessions from trainers. When a session is active, a link becomes visible in the schedule of both the client and trainer, which leads to a page that creates an encrypted peer-to-peer UDP connection between the trainer and client using PeerJS, allowing them to video chat directly with each other, without their traffic going through Fitra's server. Users can chat across a web socket connection.

Live app at <https://fitra.xyz/> [↗](#)

### Clean Break [↗](#)

<https://github.com/thomasFoydel/cleanbreak>

A drum machine built with React, Node, Next, Vercel, MongoDB, React-Spring, ToneJS, and the Web Audio API. Users can select various samples for six tracks on a step sequencer and choose when the samples play throughout sixteen slices of time. Users can route sample track signals into audio effects, change parameters on those effects, and change parameters that affect all samples, such as swing, tempo, and volume. Users can create accounts to save their settings as presets or load their previously created presets. The front-end state is managed with React's Context.

Live app at <https://cleanbreak.vercel.app/> [↗](#)

### FM Synth [↗](#)

<https://github.com/thomasFoydel/fmsynth>

A frequency modulation synthesizer built with React, Node, Next, Vercel, React-Spring, and ToneJS/Web Audio API. Users can play a synthesizer with their keyboard and navigate across the sides of a rotating three-dimensional cube to access controls for the frequency modulation and a series of filters and effects. Users can create accounts to save their settings as presets or load their previously created presets. The range inputs on the EQ and LFO filters are logarithmic.

Live app at <https://fmsynth.vercel.app/> [↗](#)

### Pandatron [↗](#)

<https://github.com/thomasFoydel/pandatron>

A subtractive synthesizer built with React, React-Spring, the Web Audio API, and PizzicatoJS. Users can play a synthesizer using their keyboard and change parameters on oscillators and effects.

Live app at <https://thomasfoydell.github.io/pandatron/> [↗](#)

## Skills

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- JavaScript
- Express
- AWS
- Nest
- Prisma
- MySQL
- AssemblyScript
- CSS3
- Node
- Redux
- Vercel
- Jest
- MongoDB
- Firebase
- Contentful
- SASS
- React
- Next
- Socket.io
- CockroachDB
- GraphQL
- Web3
- HTML5
- Git

## Education

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**Bachelor's Degree, Psychology and Sociology**  
*Roosevelt University*

2013 – 2017 | Chicago, United States

## Profile

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I am an extremely driven developer. I love writing and discussing code. I have worked as a full stack engineer for a company in the gaming space and as a web3 engineer for a DeFi company. Previously I worked for a coding bootcamp organization that teaches many web technologies. I continuously learn new technologies while diving ever deeper into JavaScript. I build arduino, raspberry pi, and 6502 projects in C++ and assembly to strengthen my computer science foundations. I have strong communication and organization skills. I believe people who have worked with me would describe me as a motivated, friendly, and easy to work with.

Thank you for taking the time to review my resume.