

# DONALD BATRYN

(331) 803-8050

[donald.batryn@gmail.com](mailto:donald.batryn@gmail.com)

[PORTFOLIO](#)

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## SKILLS

React, Redux, React Native, Python, JavaScript, TypeScript, HTML, CSS, SQL, NoSQL, GraphQL, Apollo, Express.JS, Chrome Extension, Outlook Add-In

## EXPERIENCE

### Software Engineer

Knack, Tampa, FL - [joinknack.com](https://joinknack.com)

Aug 2022 - Sep 2023

- Built and maintained a successful cross-platform peer-tutoring app while on the frontend team
- Expanded a sophisticated **monorepo** which included custom UI components, Themes, **Hooks**, and a standardized design system which was shared across **Web, iOS, Android** and client Analytics Dashboard
- Upheld a healthy application by utilizing and adding to our large **Jest** test suite, and developed new features using **TDD**
- Collaborated with front and back-end developers, designers and Product Managers to align on client needs and visual consistency
- Drastically cut down on bugs and developer error by making use of **TypeScript** with **React/React Native**, Github's CI/CD pipelines

### Mobile Engineer

4Degrees, Chicago, IL - [4degrees.ai](https://4degrees.ai)

Jan 2020 - Aug 2022

- Collaborated heavily in a startup atmosphere, implementing new designs and maintaining 3 separate code bases
- Developed new features for mobile on both iOS and Android (**React Native**), including an "offline" mode.
- Expanded our **Chrome Extension** and **Outlook Add-in**, which made heavy use of JavaScript, HTML templates and CSS
- Implemented User Interface redesigns for all platforms - collaborated with design extensively.
- Deployed to the Chrome Store/App Store/Google Play weekly

## PROJECTS

**LOUDCLOUD** (React, Rails, AWS Storage, PostgreSQL)

[live](#) | [github](#)

*A full-stack music streaming app based on Soundcloud.*

- Designed a custom audio player inside a React component, and integrated **AWS buckets** with **Redux** actions to give users a seamless listening experience while browsing the app.
- Implemented frontend/backend **user authentication**, applying Auth and Protected routes that prevented unauthorized users access to the site's features. Hashed user passwords using the **BCrypt** gem and utilized base 64 session tokens.
- Created **RESTful** API endpoints and accessed them using asynchronous **AJAX** requests, allowing users to create their own content.

**MUSICAL BREAKOUT** (JavaScript, HTML, CSS, AWS)

[live](#) | [github](#)

*A visually and sonically pleasing implementation of the classic arcade game Breakout.*

- Constructed fluid game physics using object-oriented principles, giving users a seamless and addictive playing experience.
- Built and animated game using **HTML Canvas** to draw and manipulate custom designs for each component, as well as triggering visual events in response to user interaction.
- Produced custom audio samples and music, pairing them with **event listeners**, to deliver a unique, interactive experience triggered by gameplay.

**TUMBLY** (React, Rails, AWS Storage, PostgreSQL)

[live](#) | [github](#)

*A full-stack clone of the popular blogging site Tumblr.*

- Recreated styles and functionality of the site with pixel perfect detail, bringing users a compact yet familiar experience.
- Facilitated **Infinite Scroll** akin to Tumblr, Instagram or Facebook, keeping the app **modern** and **efficient** in fetching resources.
- Implemented **ActiveStorage** in tandem with the AWS cloud to facilitate user image uploads, making the UX dynamic and flexible.
- Designed custom search API using AJAX and the Ransack Ruby gem to give users quick access to all of the site's users and posts.

## EDUCATION

**Web Development** - App Academy | Spring 2019 | 1500+ hour curriculum with < 3% acceptance rate.

