







# Jake Jones

Recent graduate of the Northcoders bootcamp looking for Junior Developer roles; eager to grow skills and learn in a professional environment.

As a student of musical analysis I enjoyed learning syntax and working creatively and precisely in technical environments. Coding puts these skills to use in a new context, and aligns my interests in design, communication and problem-solving.

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## Selected Projects See portfolio website for more info <https://jakejones2.github.io/>

### Mates Rates Web Game (May 23 – )

 <https://github.com/jakejones2/mates-rate>
 <https://matesrate.net>

- Multiplayer web game using **Django Channels** asgi framework and **websockets** for real-time interactivity
- Frontend uses vanilla js/css, backend uses python async, **postgres**, **redis**, Google Custom Search API, daphne/gunicorn
- Unit testing with unittest, end-to-end multiplayer testing with interacting instances of **Selenium**. Type-checked with **mypy**.
- Deployed on **AWS** with Elastic Beanstalk, ElastiCache, RDS and Route 53, using eb cli and platform hooks

### Articles-API Backend (Aug 23)

 <https://github.com/jakejones2/articles-api>
 <https://articles-api-zepx.onrender.com/api>

- **RESTful API** for a social media website built with **Express.js**. Features CRUD operations, querying and pagination.
- Built using **TDD** with **jest**. Postgres database includes many-to-many modelling. Pg-format + raw SQL for access/seeding.
- Implemented authorisation middleware with secure, http-only cookies, refresh/access **JWTs** and password hashing/salting
- Deployed with Render and ElephantSQL, implemented **CI/CD** with **GitHub Actions**, pre-commit testing with Husky

### Daily Express.js (Sep 23)

 <https://github.com/jakejones2/nc-news-app/>
 <https://nc-news-68e5d5.netlify.app/>

- Front-end website for *Articles-API*. Uses **React/Vite**, composed functional components, JSX templating and vanilla CSS.
- State, effect and context **hooks** achieve UI interactivity, modular loading, infinite scroll and **optimistic rendering**
- Routing, navigation and URL search params from **React Router v6**. Responsive CSS with flex and media queries.

### SoundCloud Comment Scraper (Jan 23)

 [https://github.com/jakejones2/sc\\_comment\\_scraper](https://github.com/jakejones2/sc_comment_scraper)

- Python **package** for scraping SoundCloud comments using Selenium, with stackable built-in and custom filters.
- Displays a **Tkinter GUI** with custom progress bar, writes to CSV. Can scrape urls directly or search playlists/artists.

## Skills

**Languages:** CSS, HTML, Javascript, Python, Regex, SQL

**Libraries/Frameworks:** Django+Channels, Express, Jest, JQuery, MyPy, Pandas, Pytest, React, Selenium, Tkinter, Unittest

**Software:** AWS, Docker, Git, Github Actions, Google Cloud, MacOS/Unix, Node/Npm, Postgresql, PyPI, VS Code, Windows, Zsh

**Media:** Audacity, Cubase, ImageMagick, Lightworks, Logics, MS Office, Sibelius

## Coding Courses

### Northcoders Software Engineering Bootcamp (Jul 23 – present)

- Taught using both functional and object-oriented paradigms with **Javascript** and **React**
- Emphasis on collaboration and teamwork with regular **pair-programming** coordinated remotely over Zoom and Slack
- Routine handling of pull requests, **merge conflicts** and **branch protection**, using forking and **feature branching workflows**
- Consistent, enforced application of **test-driven development**, SOLID principles, and **accessible** front-end design
- Regular **problem-solving** 'kata' practice on fundamentals such as data-structures, primitives vs objects, recursion, closure

### University of Michigan / Coursera (Dec 22 – Mar 23)

- **Django for Everybody Specialisation:** Introduction to Django, MVC architecture, networking, HTML/CSS/Javascript/SQL. Built simple CRUD apps using the Django ORM, html templating, authentication and CSRF middleware.
- **Python for Everybody:** Introductory course on Python, Regex, using the command line etc.

## Experience

<https://soundcloud.com/jake-jones-137> 

### Private and Peripatetic Music Teacher (09/22 – present)

Experienced peripatetic teacher delivering whole-class curriculum, whole-class instrumental, ensemble, small-group and individual lessons. Currently working for Pelican Music, Hackney Music Service, Waltham Forest Music Service and Tutorful.com.

- **Led** and **designed** the music curriculum at a primary school for all year groups. Created and delivered **assemblies** and school productions, **managed classroom behaviour**, and organised meetings with staff.
- **100% instrumental exam pass rate**; liaised with the ABRSM access team on behalf of students regarding **inclusivity**. Teacher of classical repertoire as well as popular styles, jazz, improvisation, theory, musicianship/aural skills. Reflective and supportive practitioner experienced working with **special educational needs (SEN)**.
- **Author** for [hellomusictheory.com](https://hellomusictheory.com), articles focusing on trombone pedagogy

### Voluntary and Workshop Experience (01/14 – present)

- Organised and led a remote masterclass for the Bradford Music Service during the COVID-19 pandemic
- Volunteered with the Academy of St. Martin in the Fields, helped lead creative workshops with vulnerable adults culminating with a performance at the Tate Modern
- Delivered chamber workshops for secondary schools and music centres in association with the Guildhall School
- Mentor for the National Youth Orchestra *Inspire days*.

### Selected Performing Experience

- Guildhall Symphony Orchestra under conductors including Michael Tilson Thomas and Marin Alsop; incl. first trombone in Sibelius's Seventh Symphony with Thomas Søndergård (10/19 - 11/19)
- National Youth Orchestra for three years; BBC proms performances featured conductors such as Sir Mark Elder, Thomas Adès and Edward Gardner (09/14 - 09/17)
- Jean Francaix Concerto for Trombone and Ten Wind Instruments with Guildhall Musicians (06/21)
- Pops orchestra: Silk Roads project with Katie Melua (04/22); principal trombonist in Capital Orchestra, performances include LSO St. Luke's and Cadogan Hall with *The Lydian Collective* (09/17 – present)
- Pop bands: e.g. punk/jazz collective *Dat Brass* (03/22), indie rock band *Hope and Social* (01/17)
- National Youth Jazz Orchestra of Scotland with Malcolm Edmonstone (04/16)
- Jazz combo, e.g. Manchester Jazz Festival with Alexander Bone (07/15)
- Clare Teal Community Big Band with Gregory Porter, Olly Murs (10/12)

## Education

### University of Oxford, Wadham College (Oct 21 – Jul 22)

- **MSt in Musicology** with **distinction** and the **Wadham College Examination Prize**. Supervised by Dr Sebastian Wedler.
- Interests included musical affect, analysis/theory and their epistemologies. Dissertation focused on texture and asynchrony in Jean Sibelius's later symphonies and tone-poems.

### Guildhall School of Music and Drama, with scholarship (Sep 17 – Jul 21)

- **First-class degree** with a **Concert Recital Diploma** and the **Chairman's Prize** for outstanding academic performance and the highest overall mark in the cohort.
- Dissertation *Sibelius's Seventh Symphony and the Artistic Sublime* nominated for the **Rose Lawrence Award**
- Electives included Harmony; Aural; Electronic Music; Analysis; Counterpoint; Music, Philosophy, and the Arts; Fugue

### Beckfoot School, Bingley (Sep 07 – Jul 17)

- **A-levels: Mathematics A\*, Physics A\*, Music A\***
- **AS-level: Further Maths A**
- **GCSE: 11 A\***
- **UKMT Team Maths Challenge Representative**

## Hobbies and Interests

Aside from programming, I'm a keen swimmer, sci-fi reader and Subbuteo enthusiast who loves learning about random topics on Wikipedia. I'm drawn towards hobbies that involve building or making things, and probably get too invested in logic puzzles and strategy games. Writing and listening to music remains a big part of my life, and my favourite pieces usually involve some sort of creative negotiation with a musical form. There's a parallel with coding there somewhere!