

Stephen Thompson

Location: Chicago, IL 60647

Portfolio: <https://sgthompson.herokuapp.com>

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Summary

Full-stack web developer living in Chicago. PhD in applied mathematics. Over five years of experience teaching mathematics and statistics, and three years writing code. Published research in peer-reviewed journals on fixed-point theory, mathematical epidemiology, differential equations and economics. Recently finished the full stack boot camp at Northwestern University.

Technical Skills

JavaScript, Node.js, Python, React.js, MERN stack, Handlebars, Express.js, MVC, Bulma, SQL, Git, HTML, CSS, jQuery, MongoDB, NoSQL, Visual Studio and GraphQL.

Soft Skills

Patient, innovative, and able to see the big picture.

Projects

React.js Macroeconomic Forecaster: React.js application that allows user to choose parameters for a macroeconomic model, run simulations, and view the results as an animation as the model is being solved (uses Runge-Kutta method).

Deployed app: <https://sthompsonchicago.github.io/macro-disequilibrium/>

GitHub repo: <https://github.com/SThompsonChicago/macro-disequilibrium>

MERN Blog: Full-stack application that allows a user to create an account, write blog posts and view posts by others. Created using the MERN stack. Uses a MongoDB database to store posts and other information, and makes queries with GraphQL. Safely stores passwords using bcrypt library. Back end built with Apollo server.

Deployed app: <https://vast-mountain-43651.herokuapp.com/>

GitHub repo: <https://github.com/SThompsonChicago/mern-blog>

Python Simulation Space: Full-stack app created with Python/Django. Allows user to choose simulation models from a MySQL database, and then run them within the web browser.

Deployed app: <https://singwithsims.herokuapp.com/>

GitHub repo: <https://github.com/SThompsonChicago/python-simulation-space>

Education

Certificate, Full-Stack Web Development
Northwestern University, 2021

Doctor of Philosophy, Applied Mathematics
University of Maryland, Baltimore County (UMBC), 2013

Professional Experience

Mathematics Instructor, 2015-2021

University of Maryland, Baltimore County (Baltimore, Maryland)

- Developed student mastery of differential equations, linear algebra and calculus.
- Instructed classes with up to 120 students.

High School Teacher, 2019-2020

Baltimore City Public Schools (Baltimore, Maryland)

- Motivated over 60 students to understand algebra and meet graduation requirements.

Affiliate Faculty, 2017-2019

Loyola University, Maryland (Baltimore, Maryland)

- Taught a variety of undergraduate calculus courses.
- Helped classes of 20+ students understand complex integration strategies.