Ben Southgate

Contact

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Blog := bsou.io

Education

George Washington University   *2015-2017*

- M.S., Statistics
- Coursework: Measure-Theoretic Probability, Real Analysis, Analysis of Algorithms, Non-Parametrics, Stochastic Processes

Carleton College   *2009-2013*

- B.A., majored in economics (*magna cum laude*)
- Received departmental award and distinction for senior thesis in economics
- Coursework: Data Mining, Data Structures, Econometrics, Linear Algebra, Multi-variable Calculus

Professional Experience

Software Engineer, L2   *2017-Present*

CrossLead - Washington, D.C.

- Designed / implemented public API (oauth2, OpenAPI spec, interactive documentation)
- Built TypeScript interface generator for custom mongodb schema library
- Drove migration of large JavaScript application (150 kloc) from vanilla ES5 to TypeScript

Software Engineer, L1   *2015-2017*

CrossLead - Washington, D.C.

- Implemented graph algorithms for network analysis
- Developed AngularJS components for SPA
- Helped set up AWS autoscaling / job queue

- Worked with fully remote, international team

Research Assistant   *2013-2015*

The Urban Institute - Washington, DC

- Used Stata and SAS for survival analysis, group decomposition, (non) linear regression, and graphics generation
- Used Python for microsimulation, data cleaning and structure manipulation, and task automation, JavaScript for interactive data visualization development

Research Assistant   *2012*

University of Texas, Pop. Research Center - Austin, TX

- Conducted primary research utilizing U.T. Austin freshman applicant data, resulting in a working paper
- Used Stata for various regression and descriptive analyses, as well as graphics generation

Academic Experience

Teaching Assistant   *2012-2013*

Carleton College - Northfield, MN

- Junior / Senior level Macroeconomic Theory Course (ECON 331), which included Growth Modeling, Dynamic Optimization, Interest Rate Targeting, and RBC Analysis
- Ran review sessions, developed graphical and mathematical review material in LaTeX, and conducted individual tutoring sessions

Programming Experience

TypeScript — 2 year (React, NodeJS, Analysis)

JavaScript — 3 years (NodeJS / D3 / AngularJS)

Python — 4 years (web scraping / Pandas / DTW)

LaTeX — 4 years (Sweave / Tikz / Resumes)

Unix Shell — 3 years (make / AWK / sed)

R — 2 years (linear/tree/non-parametric)

Java — 2 years (academic work)