Ben Southgate

Contact

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Blog := bsou.io

Education

George Washington University — 2015-2017

- M.S., Statistics (GPA: 3.97 / 4.00)
- Coursework: Measure-Theoretic Probability, Real Analysis, Analysis of Algorithms, Non-Parametrics, Stochastic Processes, Time Series Methods

Carleton College — 2009-2013

- B.A., Economics (*magna cum laude*)
- Received departmental award and distinction in thesis
- Coursework: Data Mining, Data Structures, Econometrics, Linear Algebra, Multivariate 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
- Led migration of large JavaScript application (150k LOC) 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, Oaxaca decomposition, (non) linear regression, and graphics generation
- Used Python for microsimulation, data cleaning, and task automation; used 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 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 Models
- Ran review sessions, developed graphical and mathematical review material in LaTeX, and conducted individual tutoring sessions

Programming Experience

- **TypeScript** — 3 years (React / NodeJS / Analysis)
- **JavaScript** — 5 years (NodeJS / D3 / AngularJS)
- **Python** — 4 years (web scraping / Pandas / open CV)
- **LaTeX** — 7 years (Sweave / Tikz / Resumes)
- **Unix Shell** — 5 years (make / AWK / sed)
- **R** — 4 years (linear / tree / non-parametric)
- **Java** — 2 years (university and grad school projects)