Daniel Micah Bergey

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Experience

Jet.com — Hoboken, NJ
Software Engineer — 2016-present

- Designed & implemented static analysis tool for F# code to flag incorrect use of libraries
- Led development of in-house web app for system monitoring, SLO reporting, and RCAs
- Evaluated time-series databases for availability, efficiency, & scalability
- Built Android & iOS apps for last-mile delivery
- Wrote schema validation library to protect against injection attacks

Friends Central HS — Wynnewood, PA
CS Teacher — 2015-2016

- CS1 - web programming - HTML, Javascript, functions, arrays, objects, loops
- CS2 - software engineering tools - polymorphism, HOFs, inheritance, git, Haskell, Java

Diagrams — http://projects.haskell.org/diagrams
Maintainer — 2013-2016

- Contributed path interpolation algorithms, Harfbuzz text layout, and 3D primitives
- Wrote backends for reactive SVG, HTML Canvas, and OpenSCAD
- Supervised an undergraduate intern through Google Summer of Code

The Hacktory — Philadelphia, PA
Instructor — 2012-2016

- Developed curriculum for and taught 10-week middle school class *How Things Work*
- Taught Python, data visualization, sewable circuits, Scratch, Raspberry Pi, Linux CLI

Building Science Corporation — Somerville, MA
Architectural Engineer — 2008–2013

- Wrote Python and Fortran code for physics simulations as part of ashrae rp-1449
- Analyzed data from temperature & moisture sensors ($\sim$5 years & $\sim$2 million lines)

Education

Massachusetts Institute of Technology — Cambridge, MA
Bachelor of Science in Art and Design — 2008

Skills

Programming	C, C#, F#, Fortran, Haskell, Java, Javascript, Lisp, Perl, Python, Typescript
Software	CSS, HTML, Linux, SQL, git, Nix