# Daniel Micah Bergey

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## Experience

**LOGICAL BUILDINGS**                                          NEW YORK, NY
*Head of Software Engineering*                                  2017-2019

- Launched SmartKit app on Web & iOS, now in 1200 buildings
- Automated real-time readings from 1000 sensors in 150 buildings
- Led company-wide security audit, adoption of password managers, 2FA
- Set up zero-downtime deployments, provenence tracking, SLI monitoring

**JET.COM**                                                    HOBOKEN, NJ
*Software Engineer*                                             2016-2017

- 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, & RCA
- Wrote schema validation library to protect against injection attacks
- Built Android & iOS apps for last-mile delivery

**FRIENDS CENTRAL HIGH SCHOOL**                                WYNNEWOOD, PA
*Computer Science Teacher*                                      2015-2016

- CS1 - web programming - HTML, Javascript, functions, arrays, objects, loops, SVG
- CS2 - software engineering tools - polymorphism, FP, 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

**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 (5 years & 2 million readings)

## Skills

| | |
|---|---|
| Backend | C C♯ F♯ Fortran Haskell Java Lisp Perl Python Rust |
| Frontend | HTML CSS Javascript Angular React OpenGL |
| Infrastructure | Linux Git Kubernetes PostgreSQL InfluxDB Nginx TLS |

## Education

**MASSACHUSETTS INSTITUTE OF TECHNOLOGY**                      CAMBRIDGE, MA
*Bachelor of Science in Art and Design*                        2008