

# NATE MATTHEWS

8 Lowell Cir, Apt 2, Somerville MA 02143 | natezmatthews@gmail.com | 206-861-4299

**SUMMARY** | I have a perpetually curious and creative mind that craves interesting problems and exciting technologies, but especially the intersection of the two.

**LANGUAGES, TOOLS, AND LIBRARIES** | Python, NumPy, Pandas, Scikit-Learn, Matplotlib, Jupyter ❖ HTML5, CSS, JavaScript ❖ TCP/IP ❖ Linux, Bash ❖ C, C++ ❖ R, Shiny ❖ Oracle SQL ❖ Perl ❖ Git, GitHub, GitLab

**NOTABLE PROGRAMMING PROJECTS** | *Viewable at natezmatthews.github.io:* A Javascript Web App that identifies the dates of significant life milestones ❖ An R Shiny dashboard that shows how often you have events on your calendar at different times throughout the week ❖ A Python Jupyter Notebook that quickens data exploration and validation

*Other python:* Proxy that adds a download time estimate to the title text of each link ❖ Translator from sci-kit learn decision tree to English

*In C:* TCP Chat Server ❖ Image compressor and decompressor ❖ Image rotator ❖ Universal machine emulator ❖ Bit packer

**EXPERIENCE** | **PERFORMANCE ANALYSIS ASSOCIATE/SENIOR ASSOCIATE**  
JULY 2015 – TODAY, ATHENAHEALTH INC.  
❖ Found and scoped medical coding automation opportunities clearing 20,000 insurance claims for billing each month, using SQL, Excel, and Python.  
❖ Set up the Perl and Oracle backend for a Tableau dashboard serving 70 metrics.  
❖ Identified an API bug affecting 30,000 charges each month, and communicated the solution through datasets and charts to business analysts, developers, and clients.  
❖ Created a SQL Library, a Wiki Schema Browser, a revamped New Hire Training curriculum, a Team Resources page, and an internal project recognizing shelved projects.

**EDUCATION** | **TUFTS UNIVERSITY, MEDFORD MA**  
ECONOMICS, MAY 2015  
*GPA: 3.64, Honors: Cum Laude, Honos Civicus*

**COURSES** | *Computer Science:* Data Structures, Machine Structure and Assembly Language, Networks and Protocols, Web Programming

*Data Science:* Intro to Statistical Learning, Statistics, Econometrics

**PUBLIC SPEAKING EXPERIENCE** | Taught a cumulative 250 hours of health workshops as a volunteer for two organizations: Peer Health Exchange and The Boston Area Rape Crisis Center