




Tahir H. Butt

591 Ocean Ave Apt 5G
Brooklyn, NY 11226
+1 862-368-6709
tahir@tahirbutt.com

 [tahirbutt.com](https://github.com/tahirbutt)
 [majorgreys](https://medium.com/@majorgreys)
 [tahirhbutt](https://www.linkedin.com/in/tahirhbutt)

Professional Experience

- May 2018– *Senior Software Engineer*
Liwwa, Inc.
New York, NY
- Member of small engineering team with multiple responsibilities across products and systems
 - Prototyped image analysis and document digitization pipeline for low quality images (OpenCV, scikit-image, Google Cloud Vision)
 - Extended web application (Flask, SQLAlchemy, Backbone.js)
 - Improved development and production infrastructure (Vagrant, Chef, AWS)
- 2005–2017 *Data Analyst and Software Engineer*
Amplify Education
Brooklyn, NY
- Data Engineer (part-time) — 2016–2017*
Implemented a data pipeline and reporting platform for educational games division
- Data Analyst (part-time) — 2012–2015*
Researched the efficacy of machine learning algorithms in educational products
- Data Engineer — 2009–2012*
Led development of analysis tools for classroom assessment and instructional products
- Senior Software Engineer — 2007–2009*
Headed data discovery and integration on large data system for New York City Department of Education and directed development of a reporting tool for school administrators and teachers
- Software Engineer — 2005–2007*
Implemented services for deployment of software packages to mobile devices and tools for monitoring of backend systems, primarily focused on database performance

Research Projects

- 2018 Extreme Weather and Human Mobility
NYC Media Lab and The Weather Company

- Co-researched the effects of extreme weather on human populations using company's mobile product data with a focus on differences among socioeconomic groups
- 2017 [Visualizing NEH](#)
Graduate Center Digital Initiatives
Analysis of open data from National Endowment of Humanities (NEH) and the National Endowment of the Arts (NEA) following proposed budget cuts
- 2017 Digital Research Tools for Historians
Provost Digital Innovation Grant, The Graduate Center, CUNY
Surveyed digital research tools for historians and proposed implementation of new software based on modern web technologies and cloud infrastructure
- 2014–2016 [Conversations in Black Freedom Studies](#)
Schomburg Center for Research in Black Culture and The Graduate Center, CUNY
Developed a website and produced social media as an online extension of a monthly series of discussions at the Schomburg Center

Presentations and technical talks

- Feb 2018 [Do the 'R' Thing: Data Analysis with R](#)
The Graduate Center, CUNY
- Nov 2017 [Academics ♥ Git](#)
The Graduate Center, CUNY
- Oct 2017 [Skill Share: Pandoc](#)
Digital Scholarship Lab, The Graduate Center, CUNY
- Oct 2016 [Databases II: Querying in the Real World](#)
The Graduate Center, CUNY

Education

- 2011– Doctoral candidate, Urban Education (Expected 2019)
The Graduate Center, CUNY, New York, NY
Dissertation: “Free Tuition and Exclusion at the City University of New York, 1957-1976”
- 1998–2002 B.A., Cognitive Science and Mathematics
Johns Hopkins University, Baltimore, MD

Technical skills

Python (Flask, SQLAlchemy), R, SQL (Oracle, MySQL), WordPress, JavaScript (Backbone.js),
Git, Docker