




Tahir H. Butt

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Professional Experience

- Oct 2018– Present *Open-Source Software Engineer*
Datadog
New York, NY
- Extend performance measurement of Python libraries and frameworks
- May 2018– Oct 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

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

Presentations and technical talks

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, R, SQL, JavaScript