

Timothy Schott

timschott@gmail.com | (571)-420-7308 | timschott.com

Education

University of Virginia, Spring 2019

- B.A. Computer Science
- B.A. English
- 3.56 GPA

Professional Experience

Brightspot, Summer 2019 to present

Software Engineer

- MattressFirm (Current client)
 - Shifted mattressfirm.com and sleepexperts.com from separate legacy systems to unified CMS.
 - Developed asynchronous product ingestion framework for daily data intake.
 - Integrated Salesforce's Contact API for customer email sign-up.
 - Responsible for biweekly production code releases using AWS and TravisCI.
- The Chronicle of Higher Education (First client)
 - Re-platformed chronicle.com and philanthropy.com to new CMS.
 - Migrated legacy microblog data from Wordpress using MySQL and Java.
 - Integrated Stripe, Shopify, and Google Places APIs for ecommerce flow using JavaScript and Java.
 - Created extensible OAuth 2.0 compliant authentication provider using the Auth0 API.

Brightspot, Summer 2018

Software Engineer Intern

- CoStar Group
 - Contributed to a REST API for costar.com using Java.
 - Gained experience using Git, Vagrant, Maven and Tomcat.
 - Used Jira and the Kanban method to track progress.

Attain, Summer 2017

Software Engineer Intern

- Contributed to company intranet using Vue.JS and Node.
- Learned best practices for Agile development.

Research Experience

"Reading 'DT' Leaves: A Digital Analysis of the 'Lyrical' Novel", Summer 2018 – Spring 2019

Undergraduate Honors Thesis, University of Virginia Department of English

- Combined literary studies with NLP to investigate "lyrical" novels.
- Performed extensive text-cleaning of a 50-book corpus using R and Python
- Configured a SQLite database for storage and future use in the domain.
- Engineered 31 features and conducted supervised classification using Random Forest and SVM.
- Authored 60-page thesis that conveyed complex technical findings to non-technical audience.
- Awarded High Distinction from faculty reading committee.

University of Virginia Institute for Advanced Technology in the Humanities, Fall 2016 – Spring 2019

Research Assistant under direction of Prof. Jennifer Petersen

- Analyzed SCOTUS opinions (XML case files) to understand “free speech” in the First Amendment.
- Wrote R and Python scripts for text cleaning, sentiment analysis, topic modeling and stylometric analysis.
- Contributed to a database of shared quotes across cases to track intertextuality over time.

Projects

sBOTus, Summer 2020

- Created a custom implementation of OpenAI’s gpt-2 language model in Python to create novel aphorisms from corpus of SCOTUS opinions.
- Gained experience preprocessing texts for use in modern embedding models as well as cloud-based GPU computing via Google Colab.

@WashingtonBezos, Spring 2020

- Automated a Twitter bot using Python to tweet excerpts of *Washington Post* articles via a serverless Google Cloud function.

logomancing.com, Winter 2019

- Created dictionary website using Node.JS, MongoDB, and Handlebars.
- Configured custom domain and an SSL/TLS certificate to gain DevOps experience.

Presentations

“Reading ‘DT’ Leaves: A Digital Analysis of the ‘Lyrical’ Novel”, Fall 2019

Chicago Colloquium on Digital Humanities and Computer Science

“FabrikIt”, Spring 2018

University of Virginia Darden School of Business Entrepreneurship Cup

Honors and Awards

Michael Waggenheim Memorial Scholarship, Spring 2018

University of Virginia Department of English

Press Coverage

“Build a Poem, Build a Movement”, Spring 2018

UVA Today, <https://news.virginia.edu/content/build-poem-build-movement-its-all-part-humanities-week>