

# Anton V. Relin

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## EDUCATION

### University of Pennsylvania

Bachelor of Arts in Computer Science

Bachelor of Arts in Linguistics

Bachelor of Arts in Slavic Studies

December 2018

## TECHNICAL SKILLS

Java • Spring MVC & J2EE • Lua

MATLAB • Android • Linux

Javascript • Hibernate

Stanford NLP

Python • C • GIT • HTML5 • Flask

OCaml • Javascript • Mathematica

Liquibase

Grails • Phoneygap • TCL • Groovy

Unity • C#

## COURSEWORK

- Data Structures and Algorithms

- Programming Language

Techniques/OCaml&Java

- Syntax

- Biological Signal Processing

- Phonology

- Discrete Math

- Automata, Computability, and

Complexity

## LANGUAGES

Native: English

Heritage: Russian

Intermediate: Spanish

## WORK EXPERIENCE

### NLU SOFTWARE ENGINEER at SoundHound

Santa Clara, CA & Boulder, CO • May 2018-August 2018 & August 2019-Now

Lead software engineer on Restaurant Ordering project which allows for automated ordering of food items using voice AI. Created NLU interface using C++ and internal languages, and created restaurant menu ingestion pipeline using Python. Internship in 2018 led to expansion of the Hound NLU platform to understand questions in the domain of books and their authors.

### CLOUD SOFTWARE CONSULTANT at Signature Consulting

Deerfield Beach, FL • January 2019-May 2019

Wrote reference implementations for cloud deployment for JM Toyota using ASP.Net and AWS technologies. Translated all Jenkins deployment scripts to Python from bash.

### CLOUD SOFTWARE ENGINEERING INTERN at NASDAQ

Philadelphia, PA • June 2017-August 2017

Developed and verified log ingestion software, using AWS Firehose for data transfer and transformation, Lambda functions written in Node.JS and Python for POSTing messages to Splunk, S3 for archival storage, SQS for retry queues.

### PROGRAMMING RESEARCH ASSISTANT/RESEARCH FELLOW at Trueswell Gleitman Lab

Philadelphia, PA • September 2015-December 2017

Used Stanford NLP to analyze a corpus of child directed speech and Stanford Tregex to do quantitative analysis of verb frames. Rewrote linguistics research platform using Python, PsychoPy, and TKinter.

## TEACHING POSITIONS

### CIS 195-202: ANDROID HEAD INSTRUCTOR at University of Pennsylvania

Philadelphia, PA • August 2018-December 2018

### CIS 191: LINUX TEACHING ASSISTANT at University of Pennsylvania

Philadelphia, PA • August 2016-December 2016

## ACHIEVEMENTS

- + **Patent Submission: Automatic Learning of Entities, Words, Pronunciations, and Parts of Speech:** Described a system that recognizes and adds newly encountered words to a dictionary with relevant part of speech and domain specific data in NLU contexts.
- + **Grand Prize: AR/VR PennApps XIII:** Co-created a multiplatform mobile education platform using Unity and Vuforia, allowing for real time, augmented reality collaborative demonstrations using the Google Cardboard. Created backend using Node, Express, and SocketIO.