

# WILLIAM MERRILL

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## EDUCATION

### Yale University

New Haven, CT

- **Computer Science**, B.S. 2019
- **Linguistics**, B.A. 2019
- GPA: **3.87 / 4.0**
- Won 2016 freshman rap battle
- President of Dota 2 team

## SKILLS

### General

Python | Java | C(++) | Haskell

### Machine learning

Tensorflow | LSTMs | RTNNs

### Web development

Node | Django | React | Angular

### App development

Swift | XCode | Corona | Android

### Game development

Unity | Minecraft/Steam APIs

## INTERESTS

### Historical Linguistics

- Research assistant at Yale conference on Kitan (medieval Mongolian); Summer 2016
- Helped transcribe 15th-century charter in Latin and Middle English; Fall 2016
- High proficiency in Old Norse, Old English, and Latin language and literature
- Recipient of National Latin Exam Oxford Classical Dictionary Award; Spring 2014

## WORK & PROJECT EXPERIENCE

### Language Learning Lab, Research Assistant

Boston College

- Used machine learning to infer author's native language from essays written in English (manuscript to be published); Summer 2017

### Draftnet, Lead Programmer

New Haven, CT

- Web app that uses neural network to draft in Dota 2
- Won the Grace Hopper Prize; Spring 2017

### CLAY, Research Assistant

Yale University

- Computational linguistics research group for which I helped program a neural network parser for tree adjoining grammar; 2016-2017

### Foodie Call, Cofounder & Programmer

New Haven, CT

- Founded student-run food delivery business, Spring 2017
- Ran deliveries and built app and website

### The Book of Thoth, Indie Developer

New York, NY

- Designed natural language puzzle game which was Greenlit (approved for publication on Steam) for 2018; 2016-2017

### Youtube, Partner & Content Creator

New York, NY

- My channel SnorriDevTeam has 300,000+ views

### Other

- Backend web developer for Makers at Yale; Spring 2016
- Freelance web development; 2016-2017
- Popular Minecraft mod developer (Bounty, XRayField, and Offering)
- Authored several linguistics papers on semantics and historical linguistics

## TEACHING

- Volunteer teacher of cryptography and coding to high school students in New Haven; 2016-2017
- Helped facilitate NACLO, a high-school computational linguistics competition; January 2017
- Staff (and former student) at Johns Hopkins CTY; Summer 2016