

# Liam Niehus-Staab

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## Education

### Grinnell College

Grinnell, IA

BACHELOR OF ARTS

Expected Graduation 2020

- Computer Science Major
- Major GPA: 3.918 Overall GPA: 3.667
- Deans list Fall 2016 and Spring 2017

## Experience

### Research Assistant

Grinnell, IA

UNDERGRADUATE RESEARCH PROJECT, IMAGE SYNTHESIS FOR MACHINE LEARNING

June-August 2018

- Developed a C/C++ program to generate synthetic training data for a text recognizing CNN.
- Training with data generator improved model accuracy by 10% over results when trained on industry standard data sets.
- See the research code at <https://github.com/niehusst/MapTextSynthesizer>

### Head of Android Development

Grinnell, IA

GRAMMIEGRAM LLC

August 2018 - Present

- Lead a team of three in creating the GrammieGram Android mobile app and integrating it with the rest of our platform.
- Our app is developed in an agile environment using a test driven approach.

### AppDev Junior Engineer

Grinnell, IA

APPDEV GRINNELL

January 2018 - Present

- Developed and wrote tests in Java for the Grinnell Directory Android application.
- Gained experience writing tests using JUnit, Mockito and Espresso.

### Co-Founder and Full Stack Developer

Grinnell, IA

GRAMMIEGRAM LLC

April-August 2018

- Developed the backend for user preferences using Python and the Django framework.
- Constructed and maintained unit testing for the GrammieGram web app.
- Designed frontend UI for the contact management page using JavaScript and Bootstrap.
- Gained experience working remotely with a team using Git version control.
- See the website at <https://grammiegram.com>

## Skills

**Programming** Java, C/C++, Python, R, JavaScript

**Web** Django, HTML5, CSS

**Spoken Languages** English, Spanish

## Awards

### Compliance Accomplish

Oct 2018

HACKUIOWA

- Developed email middleware using Python to detect and prevent SEC non-compliance using Natural Language Processing.
- Won "Best Commercial Potential" award from John Pappajohn Entrepreneurial Center and "Best use of Google Cloud" award from Major League Hacking.
- See project at <https://github.com/niehusst/ComplianceAccomplish>

