

# 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: 3.611
- Deans list Fall 2016 and Spring 2017

## Experience

### Software Engineering Intern

Mountain View, CA

HYTRUST INC.

June 2019 - August 2019

- Used openAPI to make public Django API self-documenting, greatly reducing documentation update turn-around time.
- Increased products' network security by integrating SSL certificate validation between linked products in the field, utilizing openSSL.
- Used Coverity to locate and fix potential bugs in API code.

### Head of Android Development

Grinnell, IA

GRAMMIEGRAM LLC

August 2018 - June 2019

- Lead a team of three in an Agile environment with a test-driven approach.
- Developed REST API in Python with Django for use in iOS and Android apps.
- Created a proof-of-concept mobile app in Java that mirrors the messaging behavior of our web app.

### 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 neural network.
- Training with data generator improved model accuracy by 10% over accuracy when trained on industry-standard data sets.
- See the research code at <https://github.com/niehusst/MapTextSynthesizer>

### 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 Languages** Python, Java, C, C++

**Web** Django, APIs

**Mobile** Android

## Projects

### Compliance Accomplice

Oct 2018

HACKUIOWA

- Developed email middleware using Python to detect and prevent SEC compliance violations 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/ComplianceAccomplice>