

# Liam Niehus-Staab

☎ (269) 491-4686 | ✉ liamniehusstaab@gmail.com | 🏠 niehusstaab.com | 📱 niehusst | 🌐 liam-niehus-staab

## Experience

### Software Engineering Intern (Android)

Boulder, CO (remote)

HONEY (PAYPAL)

June 2020 - September 2020

- Fixed critical app accessibility issues for screen readers, keyboard navigation, and large font sizes
- Developed and maintained automated UI tests for key parts of the app
- Built a showcase of custom UI components in Kotlin, enabling greater reuse and easier tweaking of their functionality

### Head of Android Development

Grinnell, IA

GRAMMIEGRAM LLC

August 2018 - June 2019

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

### Senior Android Engineer

Grinnell, IA

APPDEV CLUB, GRINNELL

January 2018 - May 2020

- Maintained the Grinnell-Directory Android app
- Wrote tests using JUnit, Mockito and Espresso to support a large Java code base
- Gained experience querying and storing data from public APIs in Android

### Research Assistant

Grinnell, IA

UNDERGRADUATE RESEARCH PROJECT, IMAGE SYNTHESIS FOR MACHINE LEARNING

June 2018 - August 2018

- Developed a C/C++ program to generate synthetic training data for a text recognizing neural network
- Training with our 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>
- See publication at <https://ieeexplore.ieee.org/abstract/document/8978121>

## Projects

### partyq Android App

Summer 2020 - Current

(SIDE PROJECT)

- Distributed music queue mobile app that connects guests via bluetooth and wifi and plays music through the Spotify API
- Developed in Kotlin using latest design principles and best practices in Android, and released as open source
- See project at <https://github.com/niehusst/partyq>

### Compliance Accomplish

October 2018

HACKUIOWA

- Developed email middleware using Python to detect and prevent SEC compliance violations using Natural Language Processing
- Won “Best Commercial Potential” and “Best use of Google Cloud” awards
- See project at <https://github.com/niehusst/ComplianceAccomplish>

## Education

### Grinnell College

Grinnell, IA

BACHELOR'S DEGREE

Graduate of the Class of 2020

- Computer Science Major
- Major GPA: 3.76 Overall GPA: 3.6

## Skills

**Programming Languages** Java, Kotlin, Python, C/C++

**Mobile** Android