

# Liam Niehus-Staab

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## Experience

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### Software Engineer II (iOS)

Full Remote

HONEY (PAYPAL)

February 2021-Present

- Developed UI for product detail and checkout pages using Swift and Xcode for the Honey iOS app.
- Led the design and implementation of automated translation system for both mobile teams, saving 6 hours of dev time each release.
- Implemented new toast notification UI, causing a 40% increase in iOS checkout flow engagement.
- Helped port the Honey iOS app from React Native to native Swift.
- Created shared CI/CD distribution pipeline to make sharing SDKs between Honey and PayPal possible.
- Led multiple team culture/bonding activities, including regular bookclub and happy hour meetings.

### Software Engineering Intern (Android)

Boulder, CO (remote)

HONEY (PAYPAL)

June-September 2020

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

### Software Engineering Intern

Mountain View, CA

HYTRUST INC.

June-August 2019

- Used openAPI to make public Python Django API self-documenting, greatly accelerating documentation updates
- Increased products' network security by integrating SSL certificate validation between linked cloud VMs, utilizing openssl

### 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 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>

### Co-Founder and Full Stack Developer

Grinnell, IA

GRAMMIEGRAM LLC

April-August 2018

- Developed the backend database design 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

## Projects

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### 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" and "Best use of Google Cloud" awards
- See project at <https://github.com/niehusst/ComplianceAccomplice>

### partyq Android App

Summer 2020 - Current

(SIDE PROJECT)

- A music queue Android mobile app that connects to guest devices via bluetooth and wifi and plays music through the Spotify API
- Utilized Google network connection library to build distributed peer-to-peer architecture for relaying data
- See project at <https://github.com/niehusst/partyq>

## Education

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**Grinnell College**

BACHELOR'S DEGREE

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

Grinnell, IA

2016-2020

**Skills**

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<b>Programming Languages</b>	Python, Swift, Kotlin, JavaScript, Java, C/C++
<b>Web</b>	Django, APIs, HTML, CSS
<b>Mobile</b>	Android Native, iOS Native