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-September 2020

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

Software Engineering Intern
Mountain View, CA

HyTrust Inc.
June 2019 - August 2019

- Used openAPI to make public Django API self-documenting, greatly accelerating documentation updates
- Increased products' network security by integrating SSL certificate validation between linked products, 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
- See publication at https://ieeexplore.ieee.org/abstract/document/8978121

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

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

partyq Android App
Summer 2020 - Current

(side project)

- Distributed music queue mobile app that connects to guest devices via bluetooth and wifi and plays music through the Spotify API
- See project at https://github.com/niehusst/partyq

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   Python, Java, Kotlin, C/C++
Web   Django, APIs
Mobile   Android