Liam Niehus-Staab

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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 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 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

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
- Utilize Google network connection library to send compressed data in distributed peer-to-peer architecture
- See project at https://github.com/niehusst/partyq

Education

Grinnell College
Grinnell, IA

BACHELOR'S DEGREE
2016-2020

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

Skills

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