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: 3.667
- Deans list Fall 2016 and Spring 2017

Experience

Software Engineering Intern   *Mountain View, CA*

HYTRUST   *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 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 CNN.
- Training with data generator improved model accuracy by 10% over results 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

Mobil   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