Nicholas **Hubbard**

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Education

Gannon University *Erie, PA*
BS in Computer Science/Software Engineering (Dual Major) *August 2020 – Present*
GPA: 3.1

Work Experience

Gannon University *Erie, PA*
Infrastructure Technician (Work Study) *October 2021 – Present*
- Maintain, backup, update and set up CIS department servers, networking, and monitoring
- Deploy, update, and maintain shared department computer labs (80+ desktops)
- Completed major server room power delivery project under budget and over specification

Rock Central (Rocket Mortgage) *Detroit, MI and Remote*
Systems Engineering Intern *May 2021 – August 2021*
- Migrated 60+ wiki pages from JIRA to MkDocs and GitHub (Markdown)
- Rewrote many pages to match updated and current practices
- Wrote multiple Python plugins for MkDocs to enable custom functionality lost during JIRA migration, each with full documentation and 100% test coverage
- Redesigned MkDocs platform around the MkDocs for Material theme
- Completed entire project within the duration of the internship, with team members commending the final product

Skills

Programming Languages

- Java 11+
- Kotlin
- Kotlin Coroutines
- Kotlin Serialization
- Kotlin IO

- Gradle (Groovy and Kotlin DSLs)
- Python 3
- Modern Android Development (MAD)
- HTML 5
- CSS 3

- Tailwind CSS v3
- JavaScript (ES6+)
- TypeScript
- MySQL
- PostgreSQL

Markup and Typesetting

- Markdown (including GFM and other extensions)
- LaTeX (this resume was created with LaTeX!)

Projects

Autoclave *Kotlin, Kotlin Coroutines, JUnit 5, Gradle Kotlin DSL, CSS 3, Tailwind CSS v3*

An automatic converter to migrate pure CSS projects to Tailwind CSS. In progress. *(currently private and in development, can demo on request)*

VTK *Python 3, TensorFlow, NVIDIA CUDA, Machine learning, OpenCV*

An easy-to-use vision toolkit for working with SSD and SSD-Lite TensorFlow object detection models. *https://github.com/Robocubs/vtk*

MLRun

Python 3, Numpy, NVIDIA CUDA, NVIDIA Jetson Platform(s), Google Coral AI Accelerators, OpenCV, FIRST Robotics NetworkTables

An end-to-end machine learning model inference tool.

https://github.com/Robocubs/mlrun

Librecampus

Kotlin, Kotlin Coroutines, Selenium, JUnit 5, OkHttp, Retrofit 2, Modern Android Development (MAD), Firebase

A mobile app for Blackbaud onCampus-based LMS systems.

(private, can show upon request; no demo can be provided)

StockWise

Python 3, Goldman Sachs Marquee, TensorFlow, NewsAPI, VADER Sentiment Analysis, Bootstrap, Django 2

Stock sentiment analysis using Python, Goldman Sachs Marquee, TensorFlow, and NewsAPI.

https://devpost.com/software/mhacks11-ypgx83

Awards

March 2019   **FIRST Robotics Autonomous Award**, Recognized for creating the first machine learning-based vision system in FIRST Robotics, used to detect and track objects on the game field. The code for the project was later released under the name VTK.

FIRST In Michigan Alpina 2 Event