

# GRAHAM SCOTT

COMPUTER ENGINEER, DATA SCIENTIST

<https://github.com/Zellenon>

<https://rhider.neocities.org/resume>

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## Profile

A graduate student of Computer & Engineering, Mathematics, and Linguistics with a strong interest in knowledge representation, data encoding, and GAI. My life goal is to improve the capacity of machines to communicate with humans.

## Skills

### Database Design

Finding efficient ways to process, store, and comprehend large quantities of data within a larger product structure.

### UI/X Construction

Creating simple and intuitive interfaces in multiple design paradigms to facilitate a pleasing end-user experience.

### Project Leadership

The ability to take charge and manage a team of professionals while assessing and capitalizing on individual strengths.

## Language Fluency

Java

Python

Swift

Javascript

C++

SQL

Lua

Assembly

C

Rust

Haskell

Processing

C#

Bash

HTML

CSS

## Technical Expertise

MongoDB

NumPy

Qt

Threading

OS X

PostgreSQL

TensorFlow

Kivy

OOP / DOP

Windows

Redis

PyTorch

Swing

Docker

Arduino

Neo4J

Django

Egui

GitHub

Linux / Pi

## Education

University of Iowa, Iowa City - Graduate College

Master of Science degree in Computer Science And Engineering — 3.45 GPA

University of Iowa, Iowa City - Engineering College

Bachelor degree in Electrical and Computer Science and Engineering — 3.45 GPA

Eagan High School, Eagan MN - Honor Roll

3.755 GPA, unweighted for Honors or AP courses

## Experience

Researcher in the lab of Professor Kishlay Jha

2023-2025

Graduate Research Assistant

Working under Professor Jha at the University of Iowa Engineering College, I wrote a thesis on improving the performance of clinical text classification systems by using semantic knowledge gained from analysis of documents in the field to guide the fine-tuning of Large-Language Models.

National Advanced Driving Simulator

2021-2023

MiniSim Data Engineer

Re-writing the data-parsing code to cross-reference multiple data files and report all model data back

to Minisim in a single standardized format, rather than disparate data points that must be connected mid-execution.

Creating an external utility to perform checks and edits on data files across multiple formats and database versions.

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## Contemporary Databases Semester Final

### Team Leader and Database Engineer

Spring 2022

Worked with a team of 2 other engineers to create a multi-database semester project in the form of a consumer-focused web-app. Final product utilized MongoDB and Neo4J with a Python-powered back-end which worked with Flask and JQuery to deliver webpages to customers

<https://github.com/Zellenon/contemptDBFinal>

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## Ulowa Engineering Group Study Club

### Administrator

Spring 2020-Current

Leader of the Ulowa Engineering Group Study Club, managing other club leaders, helping students coordinating events, and maintaining web-apps that students use to connect with peers in their classes.

<https://github.com/Zellenon/Eng-Discord-Bot>

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## The Nerdery

### Full-Stack Mentorship

Summer 2019

Mentored under a senior full-stack engineer with other students to design a web-app for a customer using Django, Postgres, and Vue.js running off a Python-powered back-end.

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## Mobile Application Design Project

### Team Leader, UI Designer

Fall 2018

Worked with a team of other students to make a shot-tracking app for the school volleyball team, to be used as an after-action reporting tool on the performance of both teams.

<https://github.com/jdaws47/Shotplotter>

*I am not listed as a contributor, however if you look at the commit log, there are many commits from an account named GRAHAM SCOTT that no longer exists.*

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## GenCyber Digital Security Camp

### Attendee

2016

Learned principles of computer and operational security from an organization backed by the NSA and NSF by utilizing modern network penetration and analysis tools, while also learning the fundamentals of device networking and communication.