

Aidan T. Manning

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EDUCATION

The University of Texas at Austin, Austin, TX

Expected May 2020

Bachelor's of Science in Chemistry (Computation Track), Elements of Computing Certificate

GPA: 3.3

Relevant Coursework Introduction to Computational Chemistry, Introduction to Scientific Computing, Elements of Computers and Programming, Elements of Software Design, Elements of Data Analytics, Honors General Chemistry, Organic Chemistry, Inorganic Chemistry, Physical Chemistry, Analytical Chemistry

EXPERIENCE

Henkelman Group, UT Austin, TX

07/2019 – Present

Researcher, Programmer

- Work in a computational chemistry research group where we use tools like VASP to investigate and model surface and nanoparticle reactions.
- I also help with maintaining eOn, a program developed by the group, in particular helping to upgrade the code base from Python 2 to Python 3.

Freshman Research Initiative, UT Austin, TX

01/2018 – 01/2019

Peer Mentor

- Worked in the Luminators FRI stream as a peer mentor, teaching freshman-year students how to conduct research.
- Worked on related independent project involving the synthesis of Schiff-base ligands for coordination onto lanthanide (III) ions.

PROJECTS

TDLlib for Dart

- A port of the Telegram Database Library (TDLlib) for Dart.
- Part of a longer-term project to build a mobile client for the Telegram instant messenger in Flutter.

Mobile Enigma Machine Emulator (MEME)

- A mobile app that emulates the Enigma Machine, a famous cipher used during WWII.
- Made by myself in Dart using the Flutter framework.

GBARS

- Experimental GameBoy emulator I'm working on in Rust.

SKILLS

Programming Languages Python, Rust, Dart, TypeScript, SQL, C, bash

Libraries & Frameworks Flask, Flutter, jQuery

Markup & Formatting HTML, CSS, JSON, YAML, Markdown, L^AT_EX

Tools Git, SSH, Jupyter Notebooks, Visual Studio Code, JetBrains IDE's (PyCharm, Android Studio, etc.), Vim

Foreign Languages German (intermediate – advanced)

HONORS & AWARDS

National Society of Collegiate Scholars

Member

2017 – Present