

Aidan T. Manning

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<https://periodicaidan.github.io/portfolio>

EDUCATION

The University of Texas at Austin, Austin, TX

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

Graduated May 2020

GPA: 3.3

UT Austin Full Stack Flex Coding Bootcamp

December 2020

Relevant Coursework Honors General Chemistry, Organic Chemistry, Inorganic Chemistry, Physical Chemistry, Analytical Chemistry, Computational Chemistry, Scientific Computing, Software Design, Data Analytics

EXPERIENCE

Henkelman Group, UT Austin, TX

Researcher, Programmer

07/2019 – 05/2020

- Investigated and modeled surface and nanoparticle reactions using tools like VASP.
- Maintained eOn, a program developed by the group, particularly to upgrade the code base from Python 2 to Python 3.

Freshman Research Initiative, UT Austin, TX

Research Assistant, Peer Mentor

01/2016 – Present

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

Björn Reinhard, Boston University, MA

Research Intern

07/2015 – 08/2015

- Assisted in researching applications of gold metal plasmons as catalysts, particularly with synthesis and data analysis.
- Documented and elucidated research and findings for a high school senior thesis project.

PROJECTS

FEconvert (<https://feconvert.herokuapp.com>)

Client-side multimedia conversion with FFmpeg and WebAssembly.

TDLib for Dart (https://github.com/periodicaidan/dart_tdlb)

A port of the Telegram Database Library (TDLib) for Dart, with which I intend to make a Telegram client.

GBARS (<https://github.com/periodicaidan/gbars>)

A GameBoy emulator I'm making in Rust as a study in computer architecture and maintaining a large, long-term project.

SKILLS

Programming Languages Python, Rust, Dart, Java, C#, TypeScript, Lua, SQL, C, bash

Libraries & Frameworks Flask, Flutter, React, Node.js/Express, jQuery, Spring, .NET Core

Tools Linux, Git, Docker, SSH, Visual Studio Code, JetBrains IDE's, Vim

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

HONORS & AWARDS

National Society of Collegiate Scholars

Member

2017 – Present

PERSONAL

UT Objectivism Society Member & president, 09/2016 – 05/2018

Foreign Languages German (intermediate – advanced)

Interests Piano and music; philosophy; language and linguistics; electronics; folklore and mythology