

**Aidan T. Manning**  
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<https://periodicaidan.xyz>

## EDUCATION

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**The University of Texas at Austin**, Austin, TX *Graduated May 2020*  
Bachelor's of Science in Chemistry (Computation Track), Elements of Computing Certificate GPA: 3.3  
**Relevant Coursework** Honors General Chemistry, Organic Chemistry, Inorganic Chemistry, Physical Chemistry, Analytical Chemistry, Computational Chemistry, Scientific Computing, Software Design, Data Analytics

## EXPERIENCE

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**Henkelman Group**, UT Austin, TX *07/2019 – 05/2020*  
*Researcher, Programmer*

- 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 *01/2016 – Present*  
*Research Assistant, Peer Mentor*

- 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 *07/2015 – 08/2015*  
*Research Intern*

- 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

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**TDLib for Dart** ([https://github.com/periodicaidan/dart\\_tdlib](https://github.com/periodicaidan/dart_tdlib))  
A port of the Telegram Database Library (TDLib) for Dart, with which I intend to make a Telegram client.

**Mobile Enigma Machine Emulator (MEME)** (<https://github.com/periodicaidan/meme>)  
A mobile app that emulates the Enigma Machine, a famous codec used during WWII, to learn about old encryption methods and modeling real machines with code.

**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

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

**Libraries & Frameworks** Flask, Flutter, jQuery, Spring, .NET Core

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

**Markup & Formatting** HTML, CSS, JSON, YAML, Markdown,  $\text{\LaTeX}$

## HONORS & AWARDS

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**National Society of Collegiate Scholars** *2017 – Present*  
*Member*

## PERSONAL

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**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