Colton Hill

Application for Space Dynamics Lab CS Internship

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EDUCATION

Utah State University — *4 Years Equivalent Credit*

JANUARY 2019-PRESENT

Computer Science Major, Math Minor. Will have completed 4 years of study by April 30th, 2021.
Key Courses: Compiler Construction, Advance Algorithm, Software Engineering, Web Development, and Ordinary Differential Equations.
Current GPA: 4.0

WORK EXPERIENCE

Computer Science Tutor USU— Programing Tutor

Aug 2019 - PRESENT   Link to Private Tutoring Portfolio

- 4 semesters (1.5 years) of CS Coaching. Privately coached python, java, C++, web dev, and compilers.
- Emphasized in algorithm design, computability theory, and Compiler Construction.

Triple H Farms & Livestock — *Agricultural Technician*

April 2009 - Aug 2019

- Operating a variety of Machinery, CNC Plasma Cutting, Animal Husbandry, Equine Training, Agricultural Management, Financial Planning/Management

PROJECTS

Live Auction Web App — Backend Developer

Spring 2020   Link to Project

- Developed a live auction service for charity auctions
- Responsible for database tables, queries, and api routes
- Demonstrates Docker containers, Typescript, Node Js, and Vue

CPSL Compiler — Backend Developer

Spring 2020   Link to Project

- Wrote a Clang independent compiler to produce MIPS code from CPSL
- Demonstrates semantic analysis, grammar parsing, and translation

SKILLS

- Code Review (Debugging, Collaboration, Consulting)
- Object-Oriented & Functional Programming.
- Git (version control)
- Docker Containers
- Basic Web design & Backend Management

LANGUAGES

Python, Java(Gradle), C++, JavaScript(Node,TypeScript), HTML, CSS, C#, MIPS.

AWARDS

"A" Pin Award/Dean's List (January 2020)

2nd Degree Black Belt Tae Kwon Do (2009-2016)

Eagle Scout Award (Dec 2, 2012)

SERVICE/LEADERSHIP

Religious Service: Two years of full-time service (2016-2018). Included work with Habitat for Humanity, Goodwill, AA/NA, and other humanitarian organizations