

# Jack H. Golden

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Seeking a Summer 2023 Software Engineering internship.

## Education

**M.Eng., B.S. in Computer Science: Virginia Polytechnic Institute and State University**

GPA: 3.14

Expected Graduation:

May 2024

## Experience

### SWE Intern – Northrop Grumman

Full time developer on Mission Systems team

June 2022 – Aug. 2022

Linthicum, MD

- Created OOP design of an automated metric collection system – end product was scalable and maintainable.
- Excelled in Agile development (CI/ CD, Sprint methodology, Atlassian Tools) – optimized delivery timeline.
- Practiced docker virtualization for deployment of end product.
- Coded a Jenkins job to automate the metric collection cycle and deployment process.

### Front End Engineer – null.black Inc.

Part time developer at a High School startup.

Feb. 2021 – Aug. 2021

Fairfax, VA

- Built React.js components in JavaScript which are being used in the company's website redesign.
- Collaborated with small team to solve design challenges; Contributed to the startup's UX design and mission.
- Became familiarized with VCS infrastructure; Actively employed git to test, develop, and push changes to code.

### Retail Sales Associate – Men's Warehouse

Sold suits in a fast-paced sales environment.

June 2021 – Aug. 2021

Fairfax, VA

- Implemented sales process from start to finish, guiding customers through suit selection and custom suit creation.
- Restocked, arranged, and organized merchandise throughout store to drive product sales.
- Achieved proficiency in back-end rental and custom suit P.O.S. software.

## Projects

### Portfolio Website

Vanilla HTML, CSS, and JavaScript personal website. Deployed website using NGINX on a VPS.

### Stringed Instrument Practice Aid (Work in Progress)

Interactive webapp [link] that displays chords and scales on stringed instruments. Used this program to practice guitar. Currently I am refactoring this program in React – plan to release it as a free product.

### MIDI Visualizer (Work in Progress)

A real-time music visualizer with harmony as the main focus. The program demonstrates interesting properties of music theory of which I wrote two papers on. Implemented in Java using various sound libraries. Currently I am working on re-implementing this as a webapp.

## Skills

### Leadership

Eagle Scout as well as stern pair rower. Led the construction of a boat rack to hold crew team's launch boats.

### Collaboration

Worked on large projects with teammates and stakeholders. Highly effective in group environments.

### Programming

Years of experience in coding. Proficient in a wide range of coding-related skills such as Linux, vim, and CLI tools.

### Customer Service

A year's worth of experience interacting with customers. Often received positive reviews for quality service.

### Critical Thinking

Experience with designing applications. Skilled in object-oriented programming with a focus on algorithmic efficiency.

## Technical Skills, Language Skills, and Interests

**OS:** Windows, MacOS, Unix-based operating systems

**Programming Languages:** C, Java, Python, JavaScript, HTML, CSS, Shell Scripting, SQL

**Libraries:** OpenCV, React.js, P5.js,

**Version Control:** Git

**Writing:**  $\LaTeX$ , Office, vim

**Languages:** English (fluent), Spanish (proficient)

**Interests:** Music, Rowing, Outdoors