

# HUDSON GILMORE

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[HUDSONGILMORE.COM](http://HUDSONGILMORE.COM)

- **UNIVERSITY OF WASHINGTON**

CLASS OF 2021

- **DEPARTMENT OF COMPUTER SCIENCE**

- **LANGUAGES**

TYPESCRIPT/JAVASCRIPT

NODE.JS

HTML/CSS

C/C++

C#

GLSL

JAVA/KOTLIN

RUST

PYTHON

- **SKILLS**

SOFTWARE ENGINEERING

UI DESIGN

ENTERPRISE ANDROID DEVELOPMENT

UNITY + GODOT GAME DEVELOPMENT

PROCEDURAL GENERATION

## JOB EXPERIENCE

- **SOFTWARE ENGINEER (MAY 2022 - JUNE 2023)**

AUDIBLE

As a back-end client developer at Audible, I worked with a team of over a dozen other software engineers to push updates to playback logic on the Audible app for Android. My work on our team's C++ Widevine CDM implementation helped save over a second on our 90th percentile load times across all Android devices.

- **SDE INTERN (SUMMER 2020)**

AMAZON WEB SERVICES

As one of Amazon's Summer 2020 interns, I worked under the tutelage of a team of AWS developers to integrate Elasticsearch, Logstash, and Kibana (ELK stack) into an existing infrastructure, caching log messages throughout their deployment.

- **CS TEACHING ASSISTANT (MAR 2019 - DEC 2019)**

DEPARTMENT OF COMPUTER SCIENCE  
UNIVERSITY OF WASHINGTON

I led twice-weekly quiz sections for ~20 students, as well as preparing original content for the course including quizzes, exams, and other supplementary material.

## DEVELOPMENT EXPERIENCE

- **CHUNKER (JAN 2024 - )**

C++ library for delegating chunked workloads to multiple threads. Splits incoming jobs into user-defined "chunks" which are generated across multiple threads and stitched back together.

- **MGC (NOVEMBER 2022 - )**

C++ library for generating golf courses on top of arbitrarily defined procedural terrain. Plots out a branching path based on local terrain, plants patches of grass, and smooths/modifies terrain to improve quality. Uses chunking, multi-threading, and grid-based hole pre-fetching to considerably improve performance.

- **GOV3RNMENT (FEBRUARY 2024)**

Rust-based discord bot intended as a means of learning the Rust programming language. Designates commands to one or more "modules" which handle responses. Modules include a pixel-sorting algorithm, Youtube audio playback, and a simple API-based trivia game which stores user performance to a local SQLite DB.

## EDUCATION

- **UNIVERSITY OF WASHINGTON**

B.S. in Computer Science ( Class of 2021 )

3.87 GPA - Cum Laude

- **BAINBRIDGE HIGH SCHOOL**

President's Volunteer Service Award Winner - Gold ( 2017 )

National Merit Scholar Finalist ( 2017 )