

Objective

Highly skilled developer with 2 years of industry experience and 15 years of independent practice, seeking a frontend developer role where I can apply my ideation, relator, and strategic strengths, alongside my broad range of technical skills, to build awesome software that makes a difference in the world.

Education

Central Washington University

Bachelor of Science in Computer Science, Minor in Mathematics
Graduated Magna Cum Laude

Ellensburg, WA
Sept. 2017 - Mar. 2019
3.7 GPA

Experience

SMART Technologies

Frontend Software Developer

Seattle, WA
Aug. 2019 - Feb. 2021

- Designed and developed an Android overlay widget manager, written in Kotlin with an MVVM architecture.
- Decomposed a bloated widget framework into a set of packages as NPM monorepo using Lerna, to enable students to use the framework.
- Built a iOS-style calculator widget in React, as part of a group activity to develop widgets.
- Worked on a large frontend team for SMART Learning Suite Online.
- Did stuff on a large frontend team for company's main product, SMART Learning Suite Online.
- Projects were built to company standards, using an Agile development methodology and following Clean architecture.
- Attended daily team standups.
- Wrote technical design documentation on Confluence.
- Built and deployed projects using TeamCity, working closely with DevOps team to ensure projects were integrated into a large final product.

Central Washington University

Undergraduate Directed Research

Ellensburg, WA
Apr. 2019 - Mar. 2019

- Under Dr. Arne Leitart, explored theories to develop more a efficient, parameterized approximation algorithm for the (Connected) r -Domination problem for unweighted and undirected graphs.
- New theories were explored on whiteboard and paper exclusively.

Central Washington University

Teaching Assistant

Jan. 2019 - Mar. 2019
Ellensburg, WA

- Graded homework assignments for *Algorithm Analysis*, taught by Dr. Boris Kovalerchuk.
- Graded homework assignments for *Introduction to Graph Algorithms*, taught by Dr. Arne Leitart.
- Assisted students during computer science lab hours for both classes.

Projects

Alonzo

<https://andgate.github.io/alonzo>

- Lambda calculus interpreter and repl written in Haskell.

solid-orbit

<https://www.github.com/andgate/solid-orbit>

- NPM package with solid-js hooks and components that provide an orbit-js data-layer.

Mandelbulb Explorer

<https://andgate.github.io/mandelbulb>

- Raytracer with signed-distance field for mandelbulb written in glsl.
- Uses sfml to provide interactivity.

Skills

- **Languages:**
 - Proficient: Javascript, Typescript, Java, Kotlin, C, C++, Haskell
 - Familiar: C#, Swift, Python
- **Frameworks:** Node, React, Vue, Solid, kotlin-flow
- **Methodologies:** Scrum, Clean, OOP, FP
- **Technologies:** Android, Git, NPM, Webpack, Babel, Lerna, Docker, Bash, Emacs, VSCode, NixOS