(805) 901-6155 softwaredev@alexanderneville.com

ALEX NEVILLE

Education

Brigham Young University | Provo, UT | 2020 — 2022

- Major: Computer Science, M.S.
- Coursework: Computer Vision, Computer Security, Pentesting, UX Design, Advanced Computer Graphics, HCI
- **GPA**: 4.0 / 4.0

Brigham Young University | Provo, UT | 2015 — 2019

- Major: Computer Science, B.S.
- Emphasis: Animation
- Minors: Mathematics and Creative Writing
- Coursework: Algorithms & Data Structures, Discrete Math, Web Development, Software Design, Computer Graphics, A.I., Systems, Android Development, Shaders, Game Design, Film Production

Employment

Software Engineer, Intern | SimpleNexus | Summer of 2021

As a full-stack developer, I used Ruby on Rails, Vue.js, and GraphQL to improve the mortgage loan application process for borrowers.

Web Developer | BYU Administrative Services | September 2020 — Present

Rewrote the BYU Cell Phones website, which allows faculty and alumni to enroll in custom cell phone plans through the university, using test-driven development and the MEAN stack.

Software Engineer 1 | Sling TV | May 2019 — June 2020

Integrated live and on-demand adaptive video streaming with various hardware platforms using Typescript and the Bitmovin API.

Software Engineer, Intern | Sling TV | Summer of 2018

Ported a standalone video player from JavaScript and AngularJS to Typescript and Angular 6.

Teaching Assistant, Java & Android Development | BYU Computer Science | August 2016 — April 2019

Taught instructive help sessions in data structures, SQLite databases, algorithms, client-server architecture, and mobile
application development. Reviewed code and unit tests for quality.

NOC Analyst | BYU Office of Information Technology | January 2015 — April 2016

Used Nagios to monitor alerts and escalate campus network issues. Provided 24/7 technical support to end users.

Software Projects

Slack Message Automater

Wrote a script in Python that automatically posts video messages to a specified Slack channel.

Alexa Skill: Theme Park Facts

Created an Alexa skill, using JavaScript and AWS, which gives a random fact about theme parks when prompted.

Photomanipulation Shader

Wrote a shader in GLSL that changes a photograph to grayscale, negative, sepia, and color.

Video Game: CarniVile

Coded a first-person shooter video game with Unity and C#, themed to a haunted carnival.

Group Projects

Club President | BYU Theme Park Engineering & Design Club | October 2018 — Present

Led groups of 2-8 students in various engineering/design competitions. Delegated tasks, followed deadlines, and created 3D concept art. We qualified for the semifinal round of Disney Imaginations in 2019.

Visual Effects Technical Director | BYU Animation | January 2018 — Present

• Used Houdini and Python to create fluid, fire, and shatter simulations, as well as tools to improve the pipeline.

Skills

Coding: Python, Java, Typescript, C++, OpenGL, Git, HTML/CSS, C#, C, Angular, Node, Matlab, SQL, Bash, Unity, Chromecast API.