

Hanna Brender

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hbrender.github.io/my-website/

Education

Gonzaga University	2016 – 2020
Bachelor of Science in Computer Science	Spokane, WA
GPA: 3.99	
Study Abroad	Summer 2018
	Florence, Italy

Work Experience

Android App Development Contractor at Gravity Jack

May 2020 – Present in Spokane, WA

- Lead Android developer on a social distancing app
- Implemented all screens to meet client's design requirements
- Designed and implemented the local database
- Created demo-videos to communicate progress with client

Software Engineering Intern at Gravity Jack

Jan – May 2020 in Spokane, WA

- Converted AR Android app from a cloud service backend to a standalone app that can be demonstrated to clients
- Implemented a proof of concept AR Android app that helped the company secure a contract.
- Applied modifications to a web wrapper Android app per the client's request.

Software Engineering Intern at Boeing (*Advanced Unmanned Systems*)

May – Aug 2019 in Tukwila, WA

- Developed a simulation management user interface for Boeing's ground control station software
- Modeled and processed simulation protocol data passed over the wire
- Designed multiple GUIs and created unit tests using Java and Swing.

Teaching Assistant at Gonzaga University (*Computer Engineering Lab*)

Aug 2018 – May 2019 in Spokane, WA

- Guided students through digital logic and assembly labs
- Helped students troubleshoot and debug their circuits and code
- Graded student lab reports

Projects

SpiroDVT (Android app) Aug 2019 – May 2020

- Senior design group project to create an app that links to electronic medical devices and allows doctors to easily monitor patients' post-surgical progress.
- Worked closely with the client to define MVP and designs
- Responsible for designing and implementing the local SQLite database and the user interface.
- Project was a finalist for 2019 Health Innovator of the Year for Health Innovation Northwest.

Skills

Android App Development

Java

HTML/CSS/JavaScript

Git/Github

MySQL

Node.js

React

MongoDB

Python

C++

Activities

Gonzaga Math Tutoring Outreach

- Fall 2017 – May 2020
- Tutoring 1st-12th grade students in math

Women in Computing Club

- Fall 2017 – May 2020

Society of Women Engineers

- Fall 2017 – May 2020

Relevant Coursework

Data Structures and Algorithms

Object Oriented Programming

Database Management Systems

Web Development

Mobile App Development

Human Computer Interaction

Data Visualization

Software Engineering

Computer Security

Computer Graphics

Assembly Programming

Artificial Intelligence

Programming Languages

Operating Systems