Avalynn Helgrave
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Objective

A dedicated and resourceful full stack developer, experienced working with a wide range of programs and programming languages, seeking to apply my skills. I am open to any coding job that involves a presentation layer and a database backend and/or data processing.

Education

2021 – 2022 University of Washington Professional & Continuing Education
Coding Bootcamp
Immersive courses in HTML, CSS, APIs, NodeJS, SQL, PWAs, React

2015 – 2019 Montana State University (MSU)
Bachelor of Science Electrical Engineering, Cum Laude, GPA 3.9
Montana State University Honors College, Academic Distinction
Relevant Coursework:

- C programming
- Python programming
- Extensive Matlab programming experience
- Intro to Feedback Controls & Microfabrication

Employment

2020 – Current C2S Technologies
Game Certification Tester
Core team member, video game testing and defect reporting under NDAs

2019 – 2020 Starbucks Coffee Company
Barista
Team member serving coffee and customer connections to help fund further programming courses

2017 – 2019 Kunze Neuroengineering Laboratory
Researcher
Wrote Python, Matlab and ImageJ programs and procedures to assist in my research

Honors & Awards

2017 – 2019	Ronald E. McNair Postbaccalaureate Achievement Program
2015 – 2019	Dean's List
2018	Recipient of the Gilhousen Chair in Telecommunications Scholarship
2017 – 2018	Recipient of the Northwestern Energy Community Works Scholarship

Patents & Intellectual Property

2019	U. S. Provisional Patent No. 62/812447: "Multi Magnetic Topographic Cell Culture Platform for Neural Tissue Engineering"

Training & Certifications

- Proficiency with the AC/DC Module in COMSOL Multiphysics 5.3
- Microfabrication lithography training for microfluidic applications as well as transistor fabrication
- Microfluidic Device Fabrication using Polydimethylsiloxane
- Biosafety Cabinet Training
- Trained to grow cortical neurons both in petri dishes and MEAs. Assisted in developing the lab protocol for culturing on MEAs.

Extracurriculars

2015, 2018	Member of the Spirit of the West Marching Band, MSU
2016 – 2018	Member of the Spirit of the West Pep Band, MSU

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