MAXWELL WEIL

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SUMMARY OF QUALIFICATIONS

- Data science focused master's student with an interest in medical and biological research
- **Languages**: Python, R, SQL, MATLAB, HTML/CSS

EDUCATION

UNIVERSITY OF WASHINGTON *Sept. 2020 – Present*
M.S. in Information Management, Specializing in Data Science *Seattle, WA*

UNIVERSITY OF WASHINGTON *Sept. 2016 - June 2020*
B.S. in Bioengineering, Minor in Neural Computation and Engineering *Seattle, WA*
- Graduated Cum Laude and with Departmental Honors

PROFESSIONAL EXPERIENCE

ALLEN INSTITUTE *June 2021 – Present*
Modeling Analysis & Theory Intern *Seattle, WA*
- Build and train DNNs using PyTorch framework on remote HPC cluster
- Analyze DNNs using analytical tools like representational similarity analysis, dimensional analysis, and PCA
- Learn state of the art knowledge about neural cell types and DNNs

UNIVERSITY OF WASHINGTON INFORMATION SCHOOL *Jan. 2021 – June 2021*
Informatics Senior Capstone Teaching Assistant *Seattle, WA*
- Conducted weekly check-ins and office hours to assist students with capstone project development through Miro
- Managed course website content, gave feedback on student projects, and provided general support
- Monitored progress of teams while granting mentorship and additional guidance as needed

NEURAL ENGINEERING AND REHABILITATION DESIGN LAB *Jan. 2019 – Jan. 2021*
Research Assistant *Seattle, WA*
- Designed and prototyped a tactile stimulation setup using Autodesk Inventor, 3D printing, and circuit board design
- Managed the simulation development team of research assistants
- Aided in creation of an artificial neural network through the Brian2 simulation in Python

UNIVERSITY OF WASHINGTON INSTITUTE FOR NEUROENGINEERING *June 2020 – Sept. 2020*
Postbaccalaureate Fellow in Neuroengineering *Seattle, WA*
- Managed a small group focused on designing and manufacturing parts for lab project
- Developed code using an existing MATLAB framework for testing electronics

UNIVERSITY OF WASHINGTON *Mar. 2020 – Dec 2020*
Bioengineering Reader/Grader *Seattle, WA*
- Courses included an introductory lab course and an advanced neuroengineering class
- Held office hours, graded lab reports and homework, and provided feedback to students
- Maintained remote correspondence with both students and teaching team members during quarantine

KEON RESEARCH *Apr. 2019 – Mar. 2020*
Research Analyst *Seattle, WA*
- Delivered reports on commercialization and IP potential of a variety of developing technologies
- Worked alongside team members to engineer products in rapid prototyping lab

PROJECTS

CARBON-INTELLIGENT API *Feb. 2021 – June 2021*
- Developing Python based API using Flask for calculating carbon emissions of computational work
- Working remotely with team using git version control through GitHub

BIOSCIENCE PYTHON TUTORIALS *Oct. 2019 – June 2020*
- Worked with small team to design and implement a series of Python tutorials for bioengineering students
- Collaborated with team members by hosting in-person and remote meetings and utilizing GitHub version control
- Created tutorial based on personal experience with neural networks