Robert L. Burris

*Computer Science Sophomore at the
University of Washington*

Bellevue, Washington
(425)-698-9106
✉ roblburris@gmail.com
roblburris.com
roblburris

Education

2019–2023 **Bachelor's of Science**, *University of Washington*, *Computer Science, GPA: 3.58/4.00*.
Academic Achievements: University of Washington Dean's List: Fall 2019, Spring 2020

Relevant Coursework

University of Washington — Data Structures and Parallelism (Fall 2020), Hardware/Software Interface (Fall 2020), Intro to Object Oriented Programming I/II, First Year Accelerated Honors Calculus I/II/III, Differential Equations, Linear Algebra, Beginning Scientific Computing

Work Experience

August 2020 - Present — **Undergraduate Researcher**, *University of Washington School of Medicine*, Seattle, Washington.
Currently building an app in Dart/Flutter to be used in nerve/muscle rehabilitation.
App is designed such that muscle contractions are used to play a Flappy Bird game with contraction data being saved for future analysis.

Summer 2019 & Summer 2020 — **Summer Programs Teaching Aide**, *Robinson Center for Young Scholars*, Seattle, Washington.
Served as a teaching aide (TA) for the accelerated Algebra 2 class.
Acted as working liaison between teacher and head programs staff.

Technical Projects

August 2020 — **Tenbot - Medical Scheduling Chatbot**, *Built at Hack'20 Hackathon*.
Used natural language processing (NLP) to develop a Telegram chatbot that allows users to schedule medical appointments.
Implemented NLP for text extraction using Rasa and scheduling via the Google Calendar API (all in Python) in under 24 hours.

March 2020 - April 2020 — **Financial Derivatives Pricer**.
Implemented Black-Scholes and Binomial Pricing Models to value stock options in Python.
Allows a client to input desired options and accurately compare the results of the two pricing models against the current value of the option.

March 2020 - April 2020 — **pydproc - Automated API Data Collection**, *pip install pydproc*.
Designed and coauthored a Python3 package (pydproc) that simplifies repeated data collection from an API using Python and YAML.
Implemented a validation script that checks required API fields and desired client data, a filter script that removes extraneous data from API calls, and a way for a client to build their own YAML file via a command line interface.

November 2019 — **Personal Website**, *roblburris.com*.
Designed a full stack website to serve as a homebase for side projects using Node.js and HTML/CSS with deployment to my server via Docker.

Knowledge Area

Programming — Python, Java, C++, JavaScript, Typescript, Node.js, Dart, MATLAB

Technologies — Docker, Flutter, HTML/CSS, Git, Unix/Linux, LaTeX, Express