Robert Burris

Undergraduate Student at the University of Washington

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Education

2019–2023 **Bachelor's of Science**, *University of Washington*, *Intended Computer Science*.
Currently an intended Computer Science major in the UW College of Engineering's Engineering Undeclared Program.

Work Experience

Summer 2019 **Summer Programs Teaching Aide**, *Robinson Center for Young Scholars*, Seattle, Washington.
Served as a teaching aide (TA) for the accelerated Algebra 2 class.
Answered student questions and supervised them at lunch.
Acted as working liaison between teacher and head programs staff.

Technical Projects

March 2020 - Present **Financial Derivatives Pricer**.
Implemented Black-Scholes and Binomial Pricing Models to value stock options in Python.
Allows a client to accurately compare the two pricing models for American Style Options.

March 2020 - April 2020 **pydproc - Automated API Data Collection**.
Collaborative project resulting in the development of 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.

December 2019 **Encore - Spotify Discord Bot**.
Built a Spotify analytics chatbot for the chat platform Discord.
Allows users to seamlessly share and lookup music & Spotify metrics in Discord with other users.
Bot is written entirely in Python with deployment to my server via Docker.

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, Javascript, Node.js, Octave/MATLAB

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

Relevant Coursework

University of Washington Honors Accelerated Calculus I/II/III (Differential, Integral, Multivariable Calculus), Differential Equations (As Part of Honors Accelerated Calculus II), Linear Algebra (As Part of Honors Calculus III) Intro to Object Oriented Programming and Data Structures I/II, Mechanics I, Electricity and Magnetism I

Awards and Honors

Fall 2019 **University of Washington Quarterly Dean's List**, *Fall Quarter 2019*.

November 2019 **5th Place out of 36**, *2019 Fall MIHS Programming Competition*.