

# Arden Neff

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## EDUCATION

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### Southwestern University

*Bachelor of Arts in Computational Math, Minor in Philosophy*

GPA: 3.98/4.00

Georgetown, TX

*Aug. 2021 – May 2025*

Relevant Coursework: CS1, CS2 (Data Structures), Operations Research, Database Management, Computer Organization, Discrete Math, Environmental Philosophy

## PROJECTS

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### *Optimizing Grape Harvest Using Linear Programming* | *Microsoft Excel*

August 2022 – Present

- Developed a ground-up research proposal regarding cost minimization and harvest prediction, which was accepted and funded by Southwestern University and later garnered the aid of the Texas Tech viticulture department
- Designed, implemented, and evaluated both a SIMPLEX linear waste reduction and an NRG nonlinear model of harvest reschedule
- Presented extensive oral and written reports to vineyard clientele as well as in two conferences both at national and statewide level, receiving first place in the Mathematics and Computer Science poster section at the Texas Academy of Science convention

### **QSIDE Datathon4Justice** | *R*

November 2023

- Donated 20 hours to a virtual collaborative event focused on analysis and accessibility of statewide police reporting data through development of a web application
- Self-learned the Shiny app package in Rstudio to improve upon user interface within 20-hour time constraint
- Uncovered a functional disconnect between dataset inputs and outputs by past years' contributors
- Presented contributions and communicated issues to 60+ contributors to better reflect group goals in future work

## EXPERIENCE

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### **Vineyard Hand**

*Christoval Vineyards*

April 2019 – Present

*Christoval, TX*

- Perform routine winery lab procedures such as titrations, °Brix testing, yeast additions, data entry, as well as general cleanup
- Organized, advertised, hosted, and taught the first annual “Painting with a Twist” 2023 event to increase local engagement for the vineyard, with 70+ total customers attending
- Undertake all facets of physical vineyard labor including pruning, hoeing, °Brix sampling, harvest, and fining

### **Information Technology Consultant**

*Southwestern University*

August 2022 – December 2023

*Georgetown, TX*

- Assess various clientele concerns to efficiently solve campus-related technological issues involving I/O, VLAN, audio, video, etc.
- Performed routine maintenance on 100+ printers, computers, and other classroom equipment campus-wide

### **Alpha Chi Honor Society President**

*Southwestern University*

November 2022 – Present

*Georgetown, TX*

- Coordinate communications with 20+ members in two organizational events a semester
- Contact nonprofits to build relations and organize collaborative engagement with local community

## SKILLS

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Java, Linear Programming, Microsoft Excel, team management, written and oral reporting, PHP, SQL, HTML, Git/Github, R