

# THOMAS M. KLAUS

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## EDUCATION

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| <b>University of Maryland</b> , College Park   | Aug 2020 – Dec 2022 |
| <ul style="list-style-type: none"><li>• Computer Science with Specialization in Machine Learning (Relevant Coursework: Machine Learning, Advanced Data Structures, Algorithms, Organization of Programming Languages)</li></ul>  |                     |
| <b>Montgomery College</b> , Rockville, MD  | Aug 2018 – May 2020 |
| <ul style="list-style-type: none"><li>• Associate Degree in Computer Science</li><li>• <b>Scholar, Montgomery Scholars</b> (Aug 2018 – May 2020)<ul style="list-style-type: none"><li>• Selected through competitive application for the Honor Curriculum Cohort and full Scholarship. Rigorous research and writing in a diverse setting.</li></ul></li></ul> |                     |

## SKILLS

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- Portuguese and English: Fluent
  - Spanish: proficient in speaking, advanced in reading/writing
  - Programming Languages: Advanced in Java, C, Ruby, C++, OCaml, JavaScript, Python, SQL, R
    - Other: NumPy, Pandas, Django, Jupyter Notebook, git, unix, VS code

## WORK EXPERIENCE

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|---|-------------------------|
| <b>Teacher, Panda Programmer</b> , Montgomery County, MD  | October 2019 - present  |
| <ul style="list-style-type: none"><li>• Meet with students to educate them about the fundamentals of computer programming in cooperation with other teachers. Worked on expanding Python curriculum</li><li>• Work on-site at Elementary schools and online with up to 6 students at a time</li></ul> |                         |
| <b>Backend Software Engineer, Global Children School</b> , Massachusetts  | December 2021- present  |
| <ul style="list-style-type: none"><li>• Remotely worked on web application which would allow teachers to easily plan and execute their schedules according to their design.</li><li>• Worked with JavaScript and Firebase, as well as git and Asana for collaboration.</li></ul>                      |                         |
| <b>Office Work/Lawn Care Worker, Klaus Landscaping, Gaithersburg, MD</b>  | Summer 2016, 2017, 2018 |
| <ul style="list-style-type: none"><li>• Worked with QuickBooks for writing estimates, invoicing, and finances</li><li>• Assisted with placing mulch, raking area, weeding, alongside office work</li></ul>  |                         |

## PROGRAMMING EXPERIENCE

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| <b>Global Children School, Teacher Class Planning Application</b>  |
| <ul style="list-style-type: none"><li>• Web application where teachers can design their own schedules for the year, and will automatically display what they have planned for the day</li><li>• Worked on the backend which queried and updated a <i>Firebase</i> database, that contains all teachers and their schedules. Assisted planning the data hierarchy.</li><li>• Developed using node.js in a Linux environment in VS code, used git for collaboration.</li></ul> |
| <b>Introduction to Data Science, Analysis of Natural Disasters in US over Time</b>   |
| <ul style="list-style-type: none"><li>• Using a dataset from Federal Emergency Management Agency on all recorded natural disasters in the US since 1950 to analyze and visualize how natural disasters might have increased over time and with the change in temperature. Developed using pandas in Python.</li><li>• Worked in collaboration with peer using git to manage progress. Link: <a href="https://rvar2002.github.io/">rvar2002.github.io/</a></li></ul>          |
| <b>Organization of Programming Languages, Wordnet Project</b>  |
| <ul style="list-style-type: none"><li>• Developed with <i>Ruby</i>; program parses files using regex into sets of synonyms and describes semantic relationships between them by implementing a graph and hash data structure as well as a command parser which recognizes and runs commands</li></ul>  |