

JASON RICKENBACHER

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EDUCATION

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| Middlebury College
Middlebury, VT
Class of 2023 | <ul style="list-style-type: none">• Candidate for Bachelor of Arts – Double Major in Mathematics and Computer Science• GPA: 4.0/4.0• Relevant Coursework: Computer Architecture, Data Structures, Math Foundations of Computing, Abstract Algebra, Linear Algebra, Multivariable Calculus, Physics – Electricity & Magnetism, Advanced Chemistry |
| South Windsor High School
June 2019 | <ul style="list-style-type: none">• Valedictorian, GPA: 4.0/4.0• National AP Scholar: Scored 5 on thirteen AP exams• Capstone: Produced YouTube tutorials/educational series on coding in Python |

EXPERIENCE

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| Middlebury College, Tutor
September 2020-present | <ul style="list-style-type: none">• Lead weekly tutoring sessions (review lectures and provide guidance on problem sets) for computer science students in Data Structures 201 course - designing algorithms and writing programs for solving large, complex problems using abstract data types (ADTs) such as stacks, queues, trees, and hash tables |
| Schroth Systems Consulting, Inc., Intern
May 2020-present
East Hampton, CT | <ul style="list-style-type: none">• Program custom software systems to meet clients' specific requirements, using Microsoft tools (SQL Server, Visual Studio, MS Access, and SQL Server Reporting Services)• Design and build web programs using C#, T-SQL, and .NET Framework• Create database applications using MS Access and VBA• Experienced with RESTful APIs and transmitting JSON data between servers |
| Hartford County 4H Camp Counselor/Staff (2016-2019)
Marlborough, CT | <ul style="list-style-type: none">• Supervised, entertained and cared for campers at all hours of the day and night• Instructed campers in tennis, gymnastics, yoga, and water sports• Promoted values of respect and responsibility |

SKILLS AND PROJECTS

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| Programming Languages | <ul style="list-style-type: none">• (<i>Proficient</i>) Java, Python (<i>Familiar</i>) C#, VBA, SQL, Dart |
| Software | <ul style="list-style-type: none">• LaTeX, Git, MS Access, Visual Studio, SQL Server |
| Projects | <ul style="list-style-type: none">• Designed an ARM32 style, programmable computer processor with digital circuits• Created an AVL Tree – self balancing binary search tree to simulate a library's book return system• Developed a custom chess engine and AI using a minimax algorithm and alpha-beta pruning |

LEADERSHIP AND ACTIVITIES

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| Middlebury Student Government Association Technology Committee | <ul style="list-style-type: none">• Leading effort to organize pre-professional data and UI/UX design workshops for Midd students and the broader Middlebury community• Centralizing access to technology resources on Midd SGA website• Working to establish "MiddHacks," a Middlebury hosted Hackathon (postponed due to Covid-19) |
| Midd Dev (Middlebury App Development Club) | <ul style="list-style-type: none">• Collaborating with a team to design and implement an interactive map of Vermont farms for ACORN (Addison County Relocalization Network) with a SQLite back-end and custom search engine |
| Middlebury Swimming & Diving Team | <ul style="list-style-type: none">• NCAA Division III Varsity Diver• Placed 9th on 1 meter and 10th on 3 meter in 2020 NESCAC Championships |
| SWHS Math Team
National Honor Society
Model United Nations
Varsity Athletics | <ul style="list-style-type: none">• <i>Captain</i> - 2nd place team in Connecticut• <i>President</i> - Established tutoring program; directed 40+ community service projects• <i>Secretary General</i> - Harvard MUN (2019), Best Delegation (2018), Innovation Award (2017)• Tennis, Diving - All Conference and All Academic, all seasons |

AWARDS AND SCHOLARSHIPS

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| Middlebury College
South Windsor High School | <ul style="list-style-type: none">• Middlebury College Scholar – Highest academic honor for every semester• SWHS Class of 2019 Outstanding Scholar Awards: Math, Science, Social Studies, Latin• Richard Tustin Memorial Scholarship: Excellence in STEM• Connecticut High School Coaches Association Scholarship: Exemplary academics, athletics, leadership• William Perry Scholarship: Outstanding academics, leadership and commitment to athletics and service• Samsung American Legion Scholarship: Boys State• Yale Book Award: Recognition for outstanding personal character and intellectual promise• Hugh O'Brian Youth Leadership Award: for leadership and community service• SWHS SADD Scholarship: for passion and commitment to SADD |
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