

Zach Griebel

St. Paul, Minnesota

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Professional Summary

Creative and driven data scientist with 3 years of experience in software development and data analysis. Strong background in applying software and data science programming for research and actionable insights. Skilled in communication and collaboration as well as mathematics and engineering.

Work Experience

Fabcon / Material Engineer Intern

May 2023 - August 2023, Savage MN

- Head of research to reduce carbon emissions of company's primary product.
- Using a variety of engineering data inside and outside of the company, designed experiments to collect and visualize data for executive team for actionable insights.
- Created model to optimize the product design.
- Developed design that significantly reduces Carbon Emissions with equivalent performance and price. When fully implemented this design will impact 85% of the product's composition.

Hamline University / Researcher

April 2021 - November 2023, St. Paul MN

- Lead medical research to replace an evaluation with an alternate, remote method.
- With team, designed prototype, collected and visualized data for funding partners and non-technical oversight
- Provided statistical analysis and modeling. Final model and prototype is statistically classified as "reliable" by the American Medical Association standards.
- First author of peer-reviewed [research](#) published in *TRIDHA: Journal of Clinical Cases & Reports*.

RateFast Corp. / Quality Assurance Intern

January 2022 - May 2023, Remote

- Worked under the lead software developer testing the companies websites and applications.
- Wrote and tested design specifications and updates for developers.
- Collaborated with the head of marketing with front end development and website design.
- Created content and ran the companies social media accounts.

Hamline University / Physics Lab Grader

January 2023 - December 2023, St. Paul

- Worked with physics professors to design lab rubrics and grade lab notebooks.

Hamline Elementary / Mentor & Tutor

August 2023 -December 2023, St. Paul

- Tutored students individually and in groups. Student-Athlete Mentor for 3rd grade class with learning and behavior delays.
- Took students on tours of Hamline University to encourage their pursuit college with the Hamline "Hand-in-Hand" program.

Education and Training

Bachelor of Science in Computational Data Science - Hamline University - 3.89 GPA 2023

Relevant Coursework: Elements of Statistical Learnings, Data Mining , Data Management and Communications, Computational Data Science Capstone, Linear Algebra, Machine Organization and Architecture (Anoka-Ramsey), Introduction to R and Data Visualization, Introduction to Programing, Introduction to Computational Data Science, Differential Equations, Calculus 1, 2 &3

Bachelors of Science in Physics Engineering Emphasis - Hamline University - 3.89 GPA 2023

Relevant Coursework: Mathematical and Computational Methods in Physics and Engineering, Electronics and Instrumentation, Advance Electromagnetic Field Theory, Thermodynamics and Statistical Mechanics, Advanced Quantum Mechanics, Energy Resources and the Environment, Principles of Engineering, Engineering Mechanics: Static, Engineering Mechanics: Dynamics, Condensed Matter Physics, Research Project-Based Advanced Laboratory, Modern Physics, Chemistry 1 & 2, Physics 1 & 2

Skills

- Experienced in languages such as Python, R, Matlab, SQL and using Git.
- Proven ability on advanced analysis and telling stories with data.
- Excellent written and oral communication skills, allowing me to be an effective presenter to non-technical stakeholders.
- As demonstrated by my experiences, I am a fast learner. This has allowed me to come into any type of organization and gain understanding to quickly and effectively contribute.

Hobbies and Interests

I love sports, particularly college athletics. During college I played on our football team and was very involved with recruiting. I provided data analysis and visualization for lots of college athletics applications such as recruiting and player development. Additionally I enjoy any kind of outdoor activities and traveling.

References

Seth Greenwald - Defensive Coordinator - Hamline University

sgreenwald01@hamline.edu 651-491-3580

Rich Deblois - Material Engineer - Fabcon Precast

Richad.Deblois@fabconprecast.com 507-317-8438

Charles Taylor - Head Football Coach/My Position Coach - Hamline University

ctaylorjr01@hamline.edu 609-410-7608

Bruce Bolon - Physics Professor/Advisor/On Research team - Hamline University

bbolon@hamline.edu 952-484-1420

Chris Hartman - Strength and Conditioning Coach/Assistance Athletic Director - Hamline University

chartman01@hamline.edu 651-263-4033

Jerry Artz - Physics Professor/Advisor/On Research team - Hamline University

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